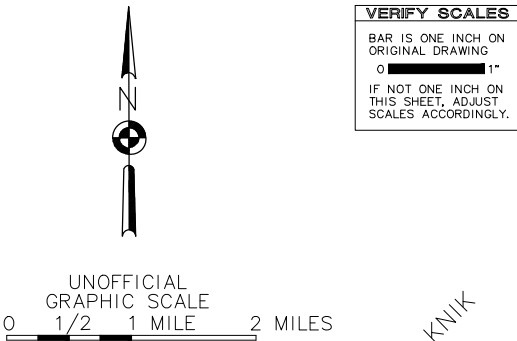
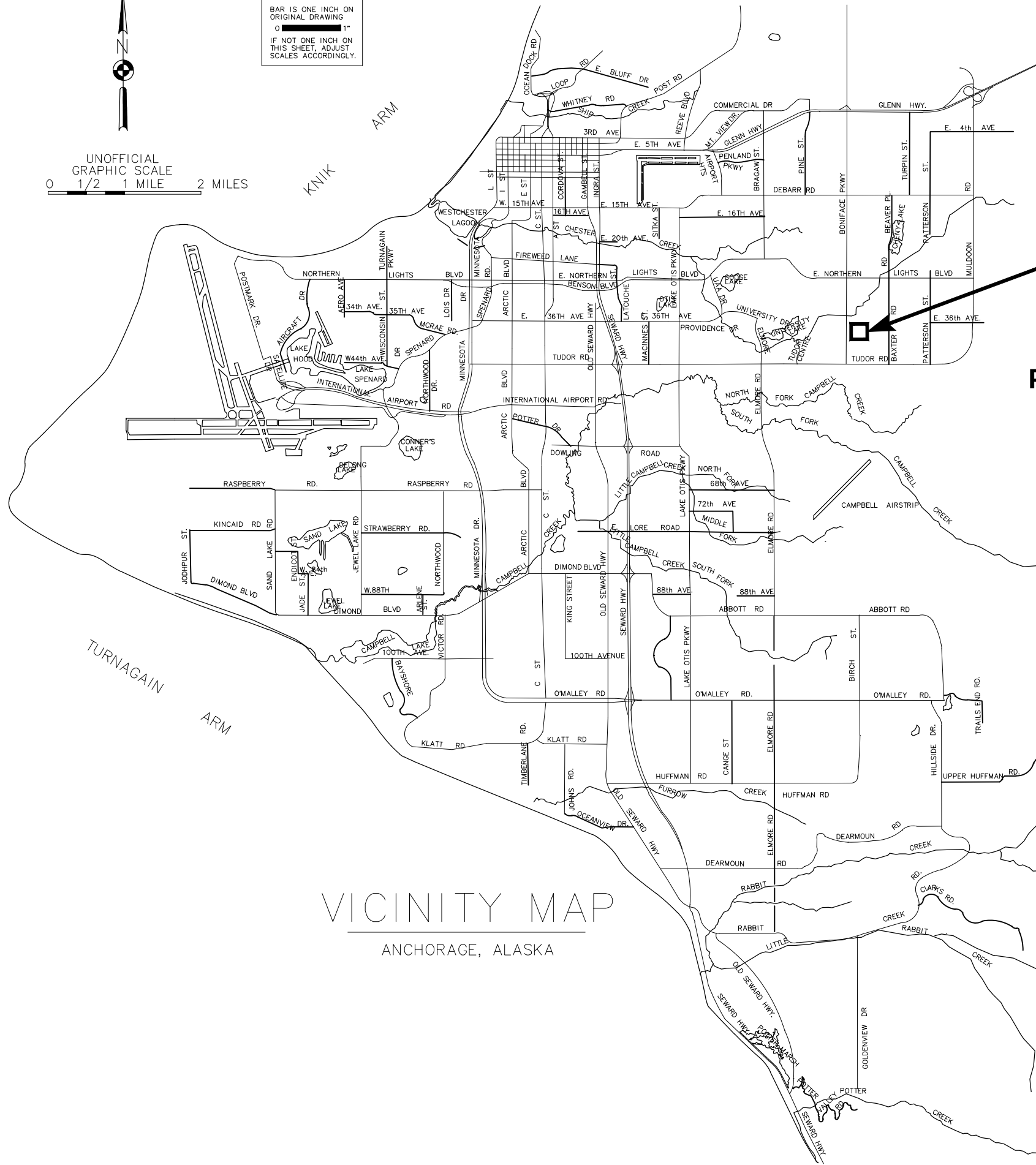




VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING
0 1" 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.



VICINITY MAP
ANCHORAGE, ALASKA



PROJECT AREA
THIS CONTRACT

**MUNICIPALITY OF ANCHORAGE
PROJECT MANAGEMENT AND ENGINEERING DEPARTMENT**

**IMAGE DRIVE / REFLECTION DRIVE AREA
ROAD RECONSTRUCTION - PHASE 2**

**PROJECT NUMBER: 14-50
SEPT 2019**

65% DESIGN

PREPARED BY:



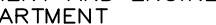
3940 ARCTIC BLVD. SUITE 300
ANCHORAGE, ALASKA 99503
PHONE: (907) 562-3252
#AECL882-AK

APPROVED BY:

KENT KOHLHASE, P.E.
MUNICIPAL ENGINEER

GENERAL NOTES

1. ALL WORK SHALL BE IN ACCORDANCE WITH THE MUNICIPALITY OF ANCHORAGE (MOA) STANDARD SPECIFICATIONS, DATED 2015, (HEREINAFTER REFERRED TO AS MASS), THE LATEST EDITION OF THE AWWU DESIGN AND CONSTRUCTION PRACTICES MANUAL AND THE SPECIAL PROVISIONS.
2. THE LOCATION OF THE EXISTING FEATURES AND UTILITIES SHOWN IN THESE DRAWINGS ARE APPROXIMATE. THE CONTRACTOR SHALL VERIFY THE HORIZONTAL AND VERTICAL LOCATION OF ALL UTILITIES ENCOUNTERED AND RECORD THEIR LOCATION ON THE CONTRACT RECORD DRAWINGS. DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ENGINEER.
3. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS PRIOR TO BEGINNING CONSTRUCTION. THE PERMITS SHALL BE MAINTAINED ON THE PROJECT SITE.
4. ALL WORK IN CLOSE PROXIMITY TO EXISTING OVERHEAD TELEPHONE AND ELECTRIC UTILITIES SHALL COMPLY WITH APPLICABLE FEDERAL, STATE AND LOCAL STATUTES, CODES AND GUIDELINES AND THE CLEARANCE REQUIREMENTS OF THE SERVING UTILITY.
5. LIMITS OF EXCAVATION SHOWN ON THE DRAWINGS ARE APPROXIMATE. ACTUAL LIMITS WILL BE DETERMINED IN THE FIELD BY THE ENGINEER DURING CONSTRUCTION OPERATIONS.
6. GEOTECHNICAL (SOILS) INFORMATION IS INCLUDED IN THE CONTRACT DOCUMENTS.
7. ALL WORK SHALL BE PERFORMED WITHIN PUBLIC RIGHT-OF-WAY, PUBLIC USE EASEMENT, SLOPE EASEMENT, TEMPORARY CONSTRUCTION EASEMENT, DRAINAGE EASEMENT, OR TEMPORARY CONSTRUCTION PERMIT AREA. ALL DISTURBED AREAS SHALL BE RESTORED TO ORIGINAL CONDITION, UNLESS OTHERWISE NOTED. REVEGETATION SHALL BE IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS.
8. CONTRACTOR SHALL RESTORE DISTURBED PROPERTY TO PRE-CONSTRUCTION CONDITIONS, UNLESS OTHERWISE DIRECTED BY ENGINEER. PAYMENT FOR RESTORING DISTURBED PROPERTY OUTSIDE OF IDENTIFIED CONSTRUCTION LIMITS SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT AND NO SEPARATE PAYMENT SHALL BE MADE. DISTURBED AREAS NOT BEING PAVED SHALL BE TOPSOILED AND SEEDED WITH SCHEDULE A SEEDING MIX UNLESS OTHERWISE NOTED.
9. PROJECT CLEARING AND GRUBBING LIMITS SHALL COINCIDE WITH THE LIMITS OF DISTURBANCE AS SHOWN ON THE DEMOLITION (B) SHEETS. CONTRACTOR SHALL OBTAIN APPROVAL OF THE CLEARING AND GRUBBING LIMITS BY THE ENGINEER PRIOR TO CLEARING AND GRUBBING, SEE SPECIFICATIONS FOR MORE INFORMATION.
10. SLOPE LIMITS SHOWN ON THE DRAWINGS ARE APPROXIMATE. THE CONTRACTOR SHALL DETERMINE THE ACTUAL SLOPE LIMITS BASED ON SURVEY DATA.
11. IN PREPARATION FOR AND IMMEDIATELY PRIOR TO PAVING, THE CONTRACTOR SHALL SAW CUT AND REMOVE ADDITIONAL PAVEMENT BEYOND THE INITIAL SAW CUT, A MINIMUM OF 1-FOOT ONTO UNDISTURBED ASPHALT. AT TRANSVERSE JOINTS FINAL SAW CUT LINE SHALL BE SKEWED 15° - 25° PER DETAIL 3, SHEET D4. TACK COAT SHALL BE APPLIED TO THE SAWN FACE OF ASPHALT PRIOR TO BEGINNING PAVING.
12. PAVEMENT CROSS SLOPE ON SIDE STREETS SHALL VARY AT INTERSECTIONS TO PROVIDE POSITIVE DRAINAGE. SEE ROADWAY (R) SHEETS FOR INTERSECTION LAYOUTS.
13. ALL WORK AND MATERIALS REQUIRED FOR REMOVING ANY LITTER OR DEBRIS CREATED BY CONSTRUCTION OPERATIONS WITHIN THE PROJECT LIMITS SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT AND NO SEPARATE PAYMENT WILL BE MADE.
14. ALL ORGANIC MATERIAL SHALL BE REMOVED FROM THE SUBGRADE TO A DEPTH TO BE DETERMINED BY THE ENGINEER. NO ORGANIC MATERIAL OR OTHER DELETERIOUS MATERIAL SHALL BE UTILIZED FOR BACKFILL.
15. THE CONTRACTOR SHALL SUBMIT RECORD SURVEY NOTES WITH THE RECORD DRAWINGS.
16. EXCAVATION SHALL BE MEASURED BY CROSS-SECTION AND SHALL BE LIMITED TO THE PAY LIMITS IDENTIFIED IN THE TYPICAL CROSS SECTIONS, UNLESS ADDITIONAL EXCAVATION IS DIRECTED BY THE ENGINEER.
17. THE ROADWAY STATIONING IS NOT RIGHT-OF-WAY CENTERLINE PER SURVEY CONTROL DRAWING UNLESS OTHERWISE NOTED. SEE SURVEY CONTROL DRAWING FOR HORIZONTAL AND VERTICAL CONTROL.
18. THE EASEMENTS AND TEMPORARY CONSTRUCTION PERMITS ACQUIRED FOR THIS PROJECT MAY HAVE RESTRICTIONS. SEE CONTRACT DOCUMENTS FOR RESTRICTIONS.
19. ALL CURB LOCATIONS, RADIUS MEASUREMENTS AND ELEVATIONS ARE TO THE TOP BACK OF CURB (TBC) UNLESS OTHERWISE NOTED.
20. FURNISH AND INSTALL 4" PIPE INSULATION BOARD (R-20) BETWEEN THE STORM DRAIN IMPROVEMENTS AND THE WATER AND SEWER UTILITIES WHEN THE VERTICAL CLEARANCE IS LESS THAN THREE FEET. IF 18 INCHES OF VERTICAL SEPARATION BETWEEN WATER AND SEWER/STORM DRAINS CAN NOT BE MAINTAINED THEN WATER RELOCATION WILL BE REQUIRED. SEWER/STORM DRAIN PIPE JOINTS SHALL BE PLACED AT LEAST NINE (9) FEET FROM A WATER CROSSING.
21. EXISTING WATER AND SEWER SERVICE LINES ARE NOT SHOWN IN THE PROFILES UNLESS SPECIFICALLY CALLED OUT.
22. WATER RESULTING FROM THE CONTRACTOR'S DEWATERING EFFORT MAY NOT BE PUMPED OR OTHERWISE DIVERTED INTO EXISTING STORM DRAINS OR SANITARY SEWERS UNLESS REQUIRED PERMITS, INCLUDING, BUT NOT LIMITED TO, THE MUNICIPALITY OF ANCHORAGE STORM WATER PLAN REVIEW OFFICE, AWWU, AND THE ALASKA DEPARTMENT OF ENVIRONMENTAL CONSERVATION, ARE OBTAINED BY THE CONTRACTOR. UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR BE ALLOWED TO DIVERT WATER FROM EXCAVATION ONTO ROADWAYS. THE CONTRACTOR SHALL PROVIDE DISPOSAL SITE FOR EXCESS WATER AND SHALL BE RESPONSIBLE FOR SECURING ALL NECESSARY PERMITS AND APPROVALS. THE CONTRACTOR SHALL PROVIDE COPIES OF PERMITS AND APPROVALS TO THE ENGINEER AND MOA ROW PERMIT OFFICE PRIOR TO BEGINNING DEWATERING.
23. ALL CURB AND GUTTER SHALL BE PAID AS "P.C.C. CURB AND GUTTER (ALL TYPES)" EXCEPT FOR CURBS WITH STEEL CURB FACING WHICH SHALL BE PAID AS "P.C.C. CURB AND GUTTER (TYPE 1, STEEL CURB FACING)".
24. EXISTING UTILITIES AND PROPOSED UTILITIES ARE NOT SHOWN IN THE TYPICAL CROSS SECTIONS.
25. THE MATCH EXISTING ELEVATIONS AS SHOWN IN THE PLANS ARE APPROXIMATE. CONTRACTOR SHALL ADJUST PROPOSED GRADES AS REQUIRED TO MATCH INTO EXISTING ELEVATIONS PER THE DIRECTION OF THE ENGINEER.
26. ALL FILL, USABLE EXCAVATION, AND TRENCH BACKFILL SHALL BE COMPACTED TO NINETY-FIVE PERCENT (95%) OF MAXIMUM DENSITY AT OPTIMUM MOISTURE CONTENT, PER MASS DIVISION 20 EARTHWORK, BASED ON MODIFIED PROCTOR TEST VALUES. ALL FILLS SHALL BE PLACED IN LIFTS NOT EXCEEDING 12 INCHES.

RECORD DRAWING		DATA		DRAWN BY	CHECKED BY								  		
1. DATA PROVIDED BY: _____ TITLE: _____		BASE	TS	MJ								PROJECT MANAGEMENT AND ENGINEERING DEPARTMENT			
THIS WILL SERVE TO CERTIFY THAT THESE RECORD DRAWINGS ARE A TRUE AND ACCURATE REPRESENTATION OF THE PROJECT AS CONSTRUCTED.		TOPOGRAPHY	TS	MJ											
CONTRACTOR: _____		PROFILE	RB	JK	FIELD BOOKS		BM NO.	LOCATION	ELEV.	REV	DATE	DESCRIPTION	BY	14-50 IMAGE DRIVE / REFLECTION DRIVE AREA ROAD RECONSTRUCTION - PHASE 2	
BY: _____ TITLE: _____ DATE: _____		STORM SEWER	JH	JK	DESIGN CRW Books 147, 148, & 151		GAAB 68	See page D-24 of the MOA Benchmark Book	238.10						
2. DATA TRANSFERRED BY: _____ TITLE: _____		WATER/SANITARY SEWER	MV	JK			GAAB 96	See page D-26 of the MOA Benchmark Book	313.83					GENERAL NOTES	
COMPANY: _____ DATE: _____		GAS	MV	JK	STAKING										
3. BASED ON PERIODIC FIELD OBSERVATIONS BY THE ENGINEER (OR AN INDIVIDUAL UNDER HIS/HER DIRECT SUPERVISION), THE CONTRACTOR-PROVIDED DATA APPEARS TO REPRESENT THE PROJECT AS CONSTRUCTED.		TELEPHONE	MV	JK										SCALE HOR. N/A VER. N/A	
DATA TRANSFER CHECKED BY: _____ TITLE: _____		ELECTRIC	TK	BM											
COMPANY: _____ DATE: _____		DESIGN	RB	JK	ASBUILT		BASIS OF THIS DATUM GAAB 1972 ADJUST							SHEET G3 of G5	
BY: _____		QUANTITIES	RB	JK	CONTRACTOR										
		PRELIMINARY/FINAL	RB	JK	INSPECTOR										
		MUNICIPAL/STATE	RB	JK											
		PLAN CHECK		CONSTRUCTION RECORD		VERTICAL DATUM		REVISIONS		CONSULTANT		SEAL			

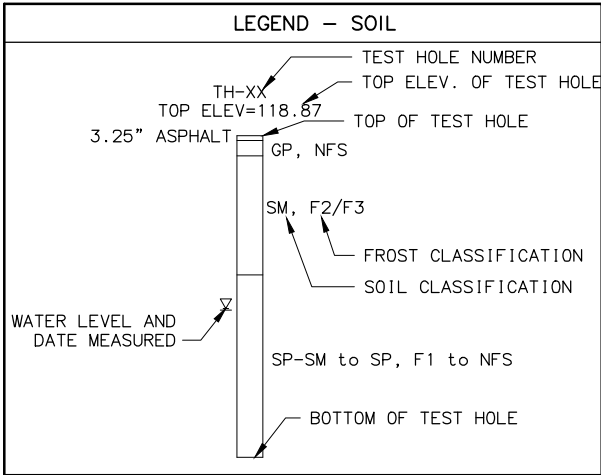
File: e:\JobsData\10133.00 Image Reflection Area Reconstruction\00 CADD\01 Working Set\01 Civil\Phase 2\10133.00 Legend - Phase 2.dwg

PROPERTY		PLAN LEGEND
EXISTING	PROPOSED	
----	----	CENTERLINE
----	----	EASEMENT LINE
----	----	PROPERTY LINE
----	----	ROW LINE
----	----	SECTION LINE
----	----	TEMPORARY CONSTRUCTION EASEMENT/PERMIT
UTILITY		UTILITY
EXISTING	PROPOSED	
.....		ABANDONED UTILITY
—C—		CABLE TV LINE (UNDERGROUND)
—OC—		CABLE TV LINE (OVERHEAD)
□U.C.		CABLE TV PEDESTAL
□X	□X	CONTROLLER OR ATR CABINET
Y=====Y	=====	CULVERT
□X		DRY WELL
—E—		ELECTRIC LINE (UNDERGROUND)
—OE—		ELECTRIC LINE (OVERHEAD)
—OEC—		ELECTRIC & CABLE TV LINE (OVERHEAD)
—OET—		ELECTRIC & TELEPHONE LINE (OVERHEAD)
□	□	ELECTRIC JB TYPE IA
□	□	ELECTRIC JB TYPE II
□	□	ELECTRIC JB TYPE III
□X	□X	ELECTRIC LOAD CENTER
⊕		ELECTRIC MANHOLE/JB
O-O.E.M.		ELECTRIC METER
□U.E.		ELECTRIC PEDESTAL UNDERGROUND
	⌋	ELECTRIC SIGN
□SC		ELECTRIC SWITCH CABINET
□T		ELECTRIC TRANSFORMER
□		ELECTRIC VAULT
FO		FIBER OPTIC LINE (UNDERGROUND)
FO		FIBER OPTIC VAULT
FD		FLOOR DRAIN
FS	FS	FOOTING DRAIN SERVICE LINE
OFS	•FS	FOOTING DRAIN SERVICE CONNECTION
G		GAS LINE
□G.M.		GAS METER
◇		GAS VALVE
●		GUY POLE
⌋		GUY ANCHOR
⊕		JOINT USE ELECTRIC & TELEPHONE POLE
—L—		LIGHTING LINE
⊙	⊙	LUMINAIRE
⊙	⊙	LUMINAIRE (PEDESTRIAN)
—S—	—S—	SANITARY SEWER LINE
○	●	SANITARY SEWER MANHOLE
▷	▷	SANITARY SEWER SERVICE CONNECTION
□C.O.		SANITARY SEWER CLEANOUT
—SD—	—SB—	STORM DRAIN LINE
—SB—	—SB—	SUBDRAIN LINE
□	■	STORM DRAIN CATCH BASIN
⊕	⊕	STORM DRAIN CATCH BASIN MANHOLE
⊕	⊕	STORM DRAIN MANHOLE
⌋		STUBOUT CAPPED OR PLUGGED END
—OHT/C—		TELEPHONE & CABLE TV LINE (OVERHEAD)
—OT—		TELEPHONE LINE (OVERHEAD)

UTILITY		UTILITY
EXISTING	PROPOSED	
—T—		TELEPHONE LINE (UNDERGROUND)
⊕		TELEPHONE MANHOLE
□U.T.		TELEPHONE PEDESTAL
□13	□14	TRAFFIC DETECTOR LOOPS
—TF—		TRAFFIC LINE (UNDERGROUND)
⊕	⊕	TRAFFIC SIGNAL POLE
⊕	⊕	TRAFFIC SIGNAL POLE/LUMINAIRE
⊕		UTILITY POLE
—W—	—W—	WATER LINE
⊕	⊕	WATER FIRE HYDRANT
⊕	⊕	WATER KEY BOX
⊕	⊕	WATER MANHOLE
⊕	⊕	WATER VALVE
⊕	⊕	WATER WELL
ROADWAY		ROADWAY
EXISTING	PROPOSED	
----	----	APPROX SLOPE LIMITS (CUT)
----	----	APPROX SLOPE LIMITS (FILL)
----	----	CURB & GUTTER
----	----	EDGE OF PAVEMENT
----	----	EDGE OF SIDEWALK
.....		GUARDRAIL, BARRIER RAIL
.....		RETAINING WALL (TYPE VARIES)
⊕	⊕	STREET SIGN
----	----	UNPAVED (GRAVEL) EDGE OF ROAD/DRIVEWAY

MISCELLANEOUS		MISCELLANEOUS
EXISTING	PROPOSED	
▽		BLUFF AREA/ EARTHWORK SLOPE
○		BOULDER
▨		DECK
—	—	DRAINAGE ARROW (DIRECTION OF FLOW)
—	—	DRAINAGE SWALE
—X—X—X—	—X—X—X—	FENCE (TYPE VARIES)
—X—X—X—	—X—X—X—	FENCE (DECORATIVE)
▨	▨	HOUSE OR STRUCTURE
▨	▨	LANDSCAPING ROCK
□M.B.	■M.B.	MAILBOX (INDIVIDUAL)
▨	▨	MAILBOX (CLUSTER)
⊕		NEWS BOX
⊕		PARKING METER
⊕	①	PARCEL NUMBERS
—	—	STREAM/EDGE OF WATERWAY
●		TREE/SHRUB (CONIFEROUS)
○		TREE/SHRUB (DECIDUOUS)
⊕		TEST BORING OR TEST HOLE
—	—	VEGETATION & BRUSH

PROFILE LEGEND		PROFILE LEGEND
EXISTING	PROPOSED	
----	----	APPROXIMATE EXCAVATION LIMITS
----	----	EXISTING GROUND OVER PIPE
----	0.00%	GRADE AT CENTER LINE
----	----	GRADE AT LEFT ROW
----	----	GRADE AT RIGHT ROW
----	----	PIPE (PROFILE)
----	----	PIPE (SECTION)
----	----	STORM DRAIN CATCH BASIN/OGS
----	----	STORM DRAIN/SANITARY SEWER MANHOLE & PIPE
----	----	UTILITY CROSSING
----	----	UTILITY CROSSING
----	----	INSULATION



NOTES:

- STANDARD LEGEND AND ABBREVIATIONS SHOWN. NOT ALL LEGEND ITEMS AND ABBREVIATIONS ARE PART OF THIS CONTRACT.
- SOIL CLASSIFICATION IS BASED UPON UNIFIED SOIL CLASSIFICATION (ASTM D 2487-00), SEE GEOTECHNICAL SOIL BORING LOGS FOR MORE INFORMATION.
- SEE LEGEND ON SHEET V1 FOR SURVEY CONTROL SYMBOLS. ADDITIONAL LEGEND AND ABBREVIATION ITEMS NOT SHOWN HERE ARE PROVIDED ON SPECIFIC SHEETS THROUGHOUT THE DRAWINGS.

COMMON ABBREVIATIONS			
ABBR.	DESCRIPTION	ABBR.	DESCRIPTION
AC	ASPHALT CONCRETE	OC	ON CENTER
AC	ASBESTOS CONCRETE	OCEW	ON CENTER EACH WAY
APPROX	APPROXIMATE	OD	OUTSIDE DIAMETER
BM	BENCH MARK	OGS	OIL AND GRIT SEPARATOR
BOP	BEGINNING OF PROJECT	OH	OVERHEAD
C&G	CURB AND GUTTER	PC	POINT OF CURVATURE
CB	CATCH BASIN	PCC	PORTLAND CONCRETE CEMENT POINT OF CONTINUOUS CURVATURE
CBMH	CATCH BASIN MANHOLE	PI	POINT OF INTERSECTION
CI	CAST IRON	PL, P/L	PROPERTY LINE
C/L, CL	CENTERLINE	PCMP	PRECOATED CORRUGATED METAL PIPE
CMP	CORRUGATED METAL PIPE	PCPEP	PERFORATED CORRUGATED POLYETHYLENE PIPE
CO	CLEANOUT	PT	POINT OF TANGENCY
CONST	CONSTRUCTION	PUE	PUBLIC USE EASEMENT
CPEP	CORRUGATED POLYETHYLENE PIPE	PVC	POINT OF VERTICAL CURVATURE
DIA	DIAMETER	PVC	POLYVINYL CHLORIDE
DIP	DUCTILE IRON PIPE	PVI	POINT OF VERTICAL INTERSECTION
DW	DETECTABLE WARNING	PVT	POINT OF VERTICAL TANGENT
DWY	DRIVEWAY	REINF	REINFORCEMENT
E	EAST	ROW, R/W	RIGHT OF WAY
ELEC	ELECTRIC / ELECTRICAL	RT, R	RIGHT
ELEV, EL	ELEVATION	S	SOUTH
EOP	END OF PROJECT / EDGE OF PAVEMENT	S/W	SIDEWALK
F&I	FURNISH AND INSTALL	SS	STAINLESS STEEL
FG	FINISHED GRADE	SEC COR	SECTION CORNER
GALV	GALVINIZED	SI	STREET INTERSECTION
GB	GRADE BREAK	ST	STREET
JB	JUNCTION BOX	STA	STATION / STATIONING
LC	LOAD CENTER	STD	STANDARD
IAW	IN ACCORDANCE WITH	STRUCT	STRUCTURE
ID	INSIDE DIAMETER	TBC	TOP BACK OF CURB
IE	INVERT ELEVATION	TBM	TEMPORARY BENCH MARK
INTX	INTERSECTION	TCP	TEMPORARY CONSTRUCTION PERMIT
INV	INVERT	TELE	TELEPHONE
LF	LINEAR FOOT	TH	TEST HOLE
LT, L	LEFT	TW	TOP OF WALL
LUM	LUMINAIRE	TYP	TYPICAL
MAX	MAXIMUM	UG	UNDERGROUND
ME	MATCH EXISTING	UON	UNLESS OTHERWISE NOTED
MH	MANHOLE	UTIL	UTILITY
MIN	MINIMUM	VERT	VERTICAL
MON	MONUMENT	VB	VALVE BOX
MSL	MEAN SEA LEVEL	VC	VERTICAL CURVE
N	NORTH	W	WEST
N/A	NOT APPLICABLE	W/	WITH
N.I.C.	NOT IN CONTRACT		
NTS	NOT TO SCALE		
NWT	NO WATER TABLE		

RECORD DRAWING

THIS WILL SERVE TO CERTIFY THAT THESE RECORD DRAWINGS ARE A TRUE AND ACCURATE REPRESENTATION OF THE PROJECT AS CONSTRUCTED.

CONTRACTOR: _____

BY: _____

TITLE: _____

DATE: _____

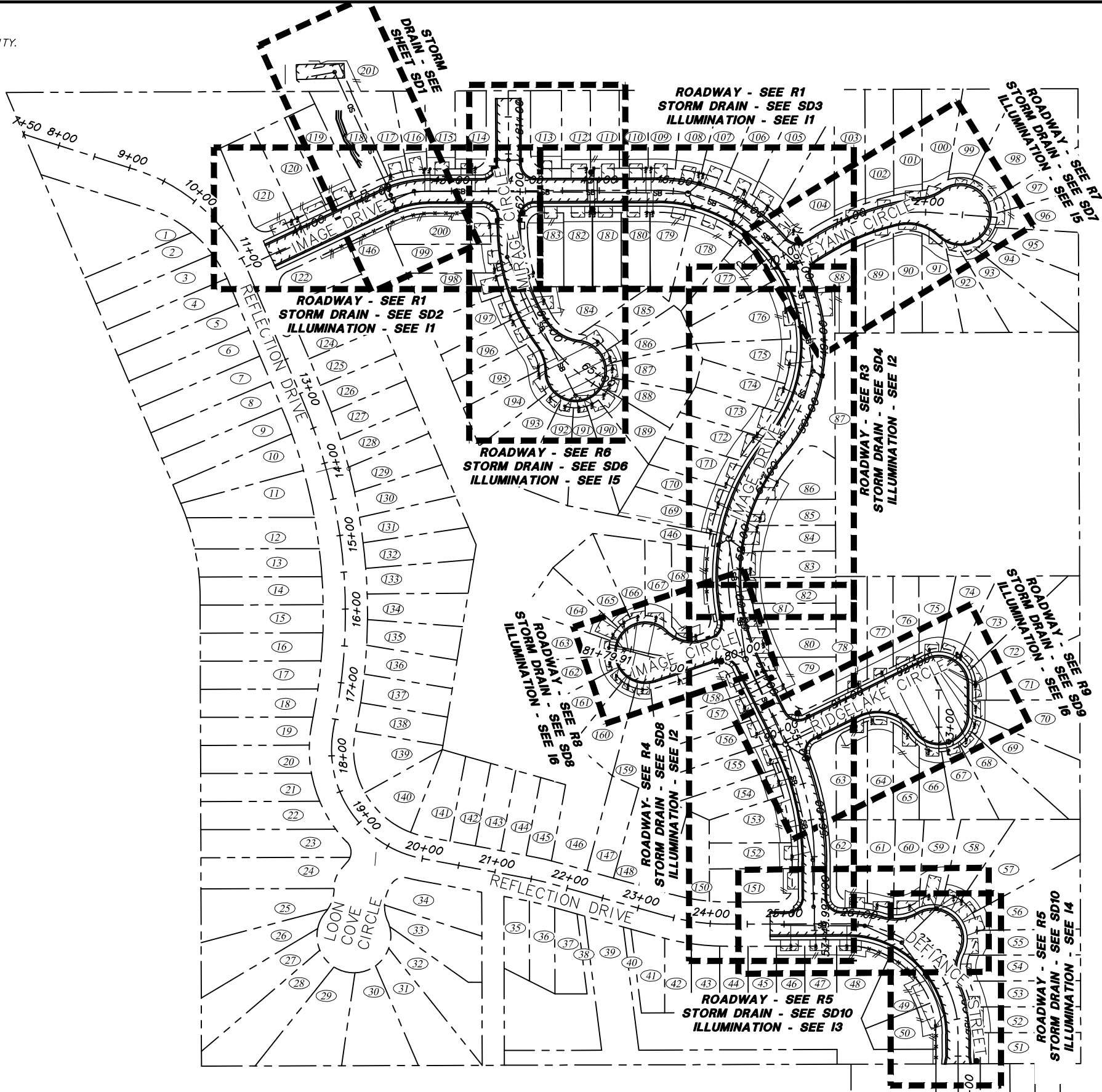
DATA	DRAWN BY	CHECKED BY							
BASE	TS	MJ							
TOPOGRAPHY	TS	MJ							
PROFILE	RB	JK							
STORM SEWER	JH	JK							
WATER/SANITARY SEWER	MV	JK							
GAS	MV	JK							
TELEPHONE	MV	JK							
ELECTRIC	TK	BM							
DESIGN	RB	JK							
QUANTITIES	RB	JK							
PRELIMINARY/FINAL	RB	JK							
MUNICIPAL/STATE	RB	JK							
PLAN CHECK			CONSTRUCTION RECORD	VERTICAL DATUM	REVISIONS	CONSULTANT	SEAL		



PROJECT MANAGEMENT AND ENGINEERING DEPARTMENT			
14-50	IMAGE DRIVE / REFLECTION DRIVE AREA ROAD RECONSTRUCTION - PHASE 2	ALL	
LEGEND AND ABBREVIATIONS			
SCALE	HOR. N/A VER. N/A	GRID SW1638, SW1738 DATE SEPT 2019 STATUS 65%	SHEET G4 of G5

NOTES:

1. EXISTING FEATURES & EASEMENTS ARE NOT SHOWN FOR CLARITY.
2. NOT ALL SHEETS ARE CALLED OUT FOR CLARITY.



RECORD DRAWING

1. DATA PROVIDED BY: _____ TITLE: _____

THIS WILL SERVE TO CERTIFY THAT THESE RECORD DRAWINGS ARE A TRUE AND ACCURATE REPRESENTATION OF THE PROJECT AS CONSTRUCTED.

CONTRACTOR: _____ DATE: _____

BY: _____ TITLE: _____

2. DATA TRANSFERRED BY: _____ TITLE: _____

COMPANY: _____ DATE: _____

3. BASED ON PERIODIC FIELD OBSERVATIONS BY THE ENGINEER (OR AN INDIVIDUAL UNDER HIS/HER DIRECT SUPERVISION), THE CONTRACTOR-PROVIDED DATA APPEARS TO REPRESENT THE PROJECT AS CONSTRUCTED.

DATA TRANSFER CHECKED BY: _____ TITLE: _____

COMPANY: _____ DATE: _____

BY: _____

DATA	DRAWN BY	CHECKED BY
BASE	TS	MJ
TOPOGRAPHY	TS	MJ
PROFILE	RB	JK
STORM SEWER	JH	JK
WATER/SANITARY SEWER	MV	JK
GAS	MV	JK
TELEPHONE	MV	JK
ELECTRIC	TK	BM
DESIGN	RB	JK
QUANTITIES	RB	JK
PRELIMINARY/FINAL	RB	JK
MUNICIPAL/STATE	RB	JK

FIELD BOOKS	BM NO.	LOCATION	ELEV.	REV	DATE	DESCRIPTION	BY
DESIGN CRW Books 147, 148, & 151	GAAB 66	See page D-24 of the MOA Benchmark Book	238.10				
	GAAB 96	See page D-26 of the MOA Benchmark Book	313.83				
STAKING							
ASBUILT							
CONTRACTOR							
INSPECTOR							
		BASIS OF THIS DATUM GAAB 1972 ADJUST					

CRW ENGINEERING GROUP LLC

3940 ARCTIC BLVD, SUITE 300
ANCHORAGE, ALASKA 99503
PHONE: (907) 562-3252
#AEC0882-AK

STATE OF ALASKA
49 TH
Justin T. Keane
CE-11775
REGISTERED PROFESSIONAL ENGINEER



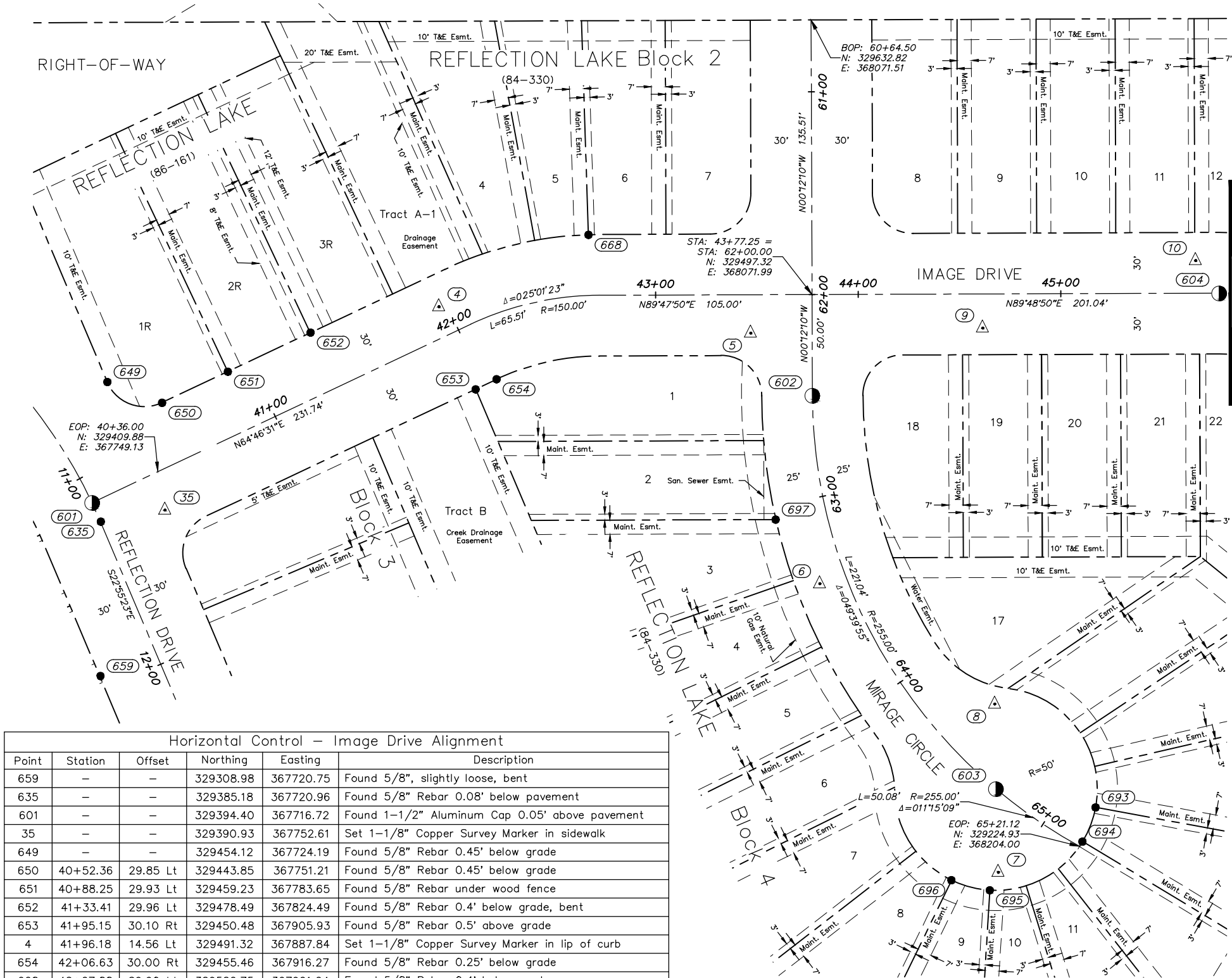
PROJECT MANAGEMENT AND ENGINEERING DEPARTMENT

14-50 IMAGE DRIVE / REFLECTION DRIVE AREA ROAD RECONSTRUCTION - PHASE 2 ALL

KEY MAP

SCALE HOR. N/A VER. N/A GRID SW1638, SW1738 DATE SEPT 2019 STATUS 65% SHEET 5 of 5

File: c:\jobdata\10133.00 Image Reflection Area Reconstruction\00 CAD\01 Working Set\02 Survey Control\10133.00 SCS Phase 2.dwg



Horizontal Control

Coordinate System:
This project is located entirely within the Anchorage Bowl 2000 adjustment, a local surface grid coordinate system expressed in U.S. Survey feet units developed by the Alaska Department of Transportation.

Basis of Coordinates:
The Basis of Coordinates is NGS Station O'Malley, located near the intersection of the New Seward Highway and O'Malley Road. Said station has Anchorage Bowl 2000 coordinates of 303939.2310 N, 353362.5446 E. U.S. Survey Feet.

Basis of Bearings:
The Basis of Bearings is a local plane bearing between NGS Station O'Malley and NGS Station Loop 2 USE RM 3 1964. NGS Station Loop 2 USE RM 3 1964 bears N 01°43'26.4" E a distance of 49488.4476 feet from NGS Station O'Malley. NGS Station Loop 2 USE RM 3 1964 has Anchorage Bowl 2000 coordinates of 353405.2778 N, 354851.3982 E. U.S. Survey Feet.

Translation Parameters:
To convert the local coordinates to NAD83 (92) State Plane coordinates expressed in U.S. Survey Feet, translate using +2,296,868.6878 N U.S. Survey Feet, +1,312,517.4904 E U.S. Survey Feet, and scale using 0.9998910192.

Vertical Control

Vertical control is based on the MOA Benchmark GAAB-66, Elevation = 238.10 feet (GAAB), as described on page D-24 of the MOA Benchmark Book, and MOA Benchmark GAAB-96, Elevation = 313.83 feet (GAAB), as described on page D-26 of the MOA Benchmark Book.

Horizontal Control – Image Drive Alignment					
Point	Station	Offset	Northing	Easting	Description
659	—	—	329308.98	367720.75	Found 5/8", slightly loose, bent
635	—	—	329385.18	367720.96	Found 5/8" Rebar 0.08' below pavement
601	—	—	329394.40	367716.72	Found 1-1/2" Aluminum Cap 0.05' above pavement
35	—	—	329390.93	367752.61	Set 1-1/8" Copper Survey Marker in sidewalk
649	—	—	329454.12	367724.19	Found 5/8" Rebar 0.45' below grade
650	40+52.36	29.85 Lt	329443.85	367751.21	Found 5/8" Rebar 0.45' below grade
651	40+88.25	29.93 Lt	329459.23	367783.65	Found 5/8" Rebar under wood fence
652	41+33.41	29.96 Lt	329478.49	367824.49	Found 5/8" Rebar 0.4' below grade, bent
653	41+95.15	30.10 Rt	329450.48	367905.93	Found 5/8" Rebar 0.5' above grade
4	41+96.18	14.56 Lt	329491.32	367887.84	Set 1-1/8" Copper Survey Marker in lip of curb
654	42+06.63	30.00 Rt	329455.46	367916.27	Found 5/8" Rebar 0.25' below grade
668	42+67.88	29.90 Lt	329526.75	367961.64	Found 5/8" Rebar 0.4' below grade
5	43+46.93	18.92 Rt	329478.29	368041.74	Set 1-1/8" Copper Survey Marker in top back of curb
602	43+77.26	50.06 Rt	329447.26	368072.16	Found 1-1/2" Aluminum Cap 0.05' above pavement
9	44+61.47	16.79 Rt	329480.80	368156.26	Set 1-1/8" Copper Survey Marker in sidewalk
10	45+66.65	16.15 Lt	329514.08	368261.34	Set 1-1/8" Copper Survey Marker in top back of curb
604	45+78.23	0.15 Rt	329497.82	368272.97	Found 1-1/2" Aluminum Cap 0.05' above pavement

Horizontal Control –Mirage Circle Alignment					
Point	Station	Offset	Northing	Easting	Description
668	61+70.18	110.24 Rt	329526.75	367961.64	Found 5/8" Rebar 0.4' below grade
9	62+16.82	84.22 Lt	329480.80	368156.26	Set 1-1/8" Copper Survey Marker in sidewalk
5	62+18.92	30.31 Rt	329478.29	368041.74	Set 1-1/8" Copper Survey Marker in top back of curb
602	62+50.07	0.01 Rt	329447.26	368072.16	Found 1-1/2" Aluminum Cap 0.05' above pavement
697	63+06.05	25.09 Rt	329386.19	368054.02	Found 5/8" Rebar 0.25' below grade
6	63+40.06	13.19 Rt	329354.57	368075.86	Set 1-1/8" Copper Survey Marker in lip of curb
8	64+39.80	29.97 Lt	329295.18	368162.18	Set 1-1/8" Copper Survey Marker in top back of curb
603	64+71.08	0.09 Rt	329253.17	368162.77	Found 1-1/2" Aluminum Cap flush with pavement
696	64+81.29	48.88 Rt	329208.21	368140.79	Found 5/8" Rebar flush with ground
7	64+95.41	32.03 Rt	329212.12	368163.94	Set 1-1/8" Copper Survey Marker in top back of curb
695	64+96.75	41.72 Rt	329203.26	368159.71	Found 5/8" Rebar 0.15' below grade
693	65+18.56	20.66 Lt	329244.17	368211.92	Found 5/8" Rebar with 1-1/4" Yellow Plastic Cap flush with ground
694	—	—	329227.27	368205.42	Found 5/8" Rebar with 1-1/4" Yellow Plastic Cap flush

- LEGEND
- Existing Aluminum Cap
 - Existing Rebar or Iron Pipe
 - Control set by CRW
 - Control Point Number

RECORD DRAWING

THIS WILL SERVE TO CERTIFY THAT THESE RECORD DRAWINGS ARE A TRUE AND ACCURATE REPRESENTATION OF THE PROJECT AS CONSTRUCTED.

CONTRACTOR: _____

BY: _____

TITLE: _____

DATE: _____

DATA	DRAWN BY	CHECKED BY
BASE	TS	MJ
TOPOGRAPHY	TS	MJ
PROFILE	RB	JK
STORM SEWER	JH	JK
WATER/SANITARY SEWER	MV	JK
GAS	MV	JK
TELEPHONE	MV	JK
ELECTRIC	TK	BM
DESIGN	RB	JK
QUANTITIES	RB	JK
PRELIMINARY/FINAL	RB	JK
MUNICIPAL/STATE	RB	JK

FIELD BOOKS	BM NO.	LOCATION	ELEV.	REV.	DATE	DESCRIPTION	BY
DESIGN CRW Books 147, 148, & 151	GAAB 66	See page D-24 of the MOA Benchmark Book	238.10				
	GAAB 96	See page D-26 of the MOA Benchmark Book	313.83				

STAKING							
ASBUILT							
CONTRACTOR							
INSPECTOR							

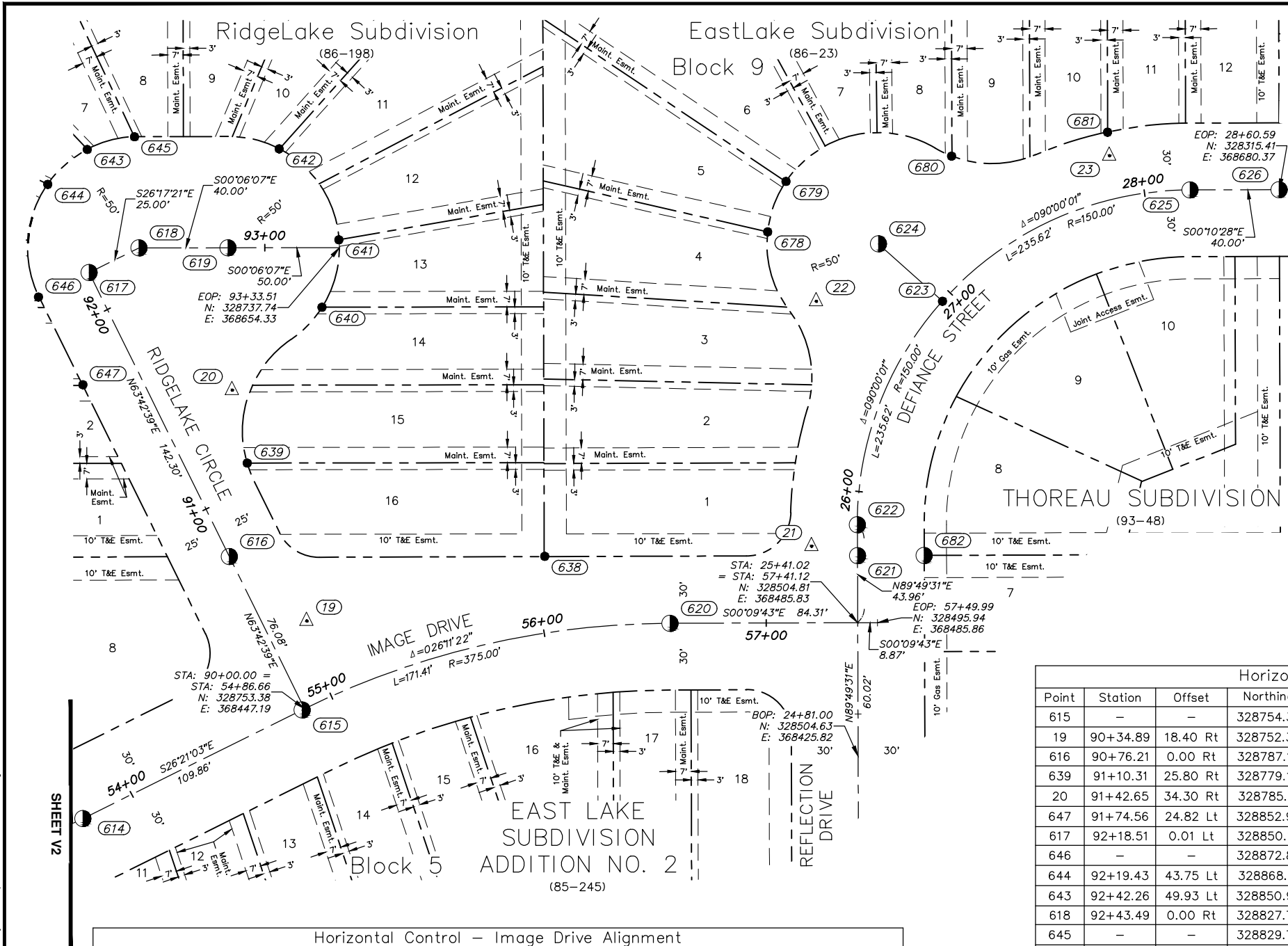
BASIS OF THIS DATUM GAAB 1972 ADJUST

PLAN CHECK	CONSTRUCTION RECORD	VERTICAL DATUM	REVISIONS	CONSULTANT
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3940 ARCTIC BLVD. SUITE 300
ANCHORAGE, ALASKA 99503
PHONE: (907) 562-3252
#AECLE82-AK

PROJECT MANAGEMENT AND ENGINEERING DEPARTMENT					
14-50	IMAGE DRIVE / REFLECTION DRIVE AREA ROAD RECONSTRUCTION – PHASE 2	ALL			
SURVEY CONTROL SHEET					
BOP IMAGE DRIVE & MIRAGE CIRCLE					
SCALE HOR. 1"=30' VER. N/A	GRID SW#638, SW#738 DATE SEPT 2019	STATUS 65%	SHEET V1 of V4		

Fig. 4: \\labdata\10133.00 Image Reflection Area Reconstruction\00 CAD\01 Working Set\02 Survey\03 Survey Control\10133.00 SCS Phase 2.dwg



Horizontal Control – Image Drive Alignment					
Point	Station	Offset	Northing	Easting	Description
614	53+75.51	0.08 Rt	328852.95	368397.78	Found 1–1/2" Aluminum Cap 0.05' above pavement
615	54+85.49	0.10 Rt	328754.39	368446.58	Found 1–1/2" Aluminum Cap 0.05' below pavement
616	54+86.52	76.21 Lt	328787.13	368515.51	Found 2" Aluminum Cap flush with pavement
19	55+03.41	35.34 Lt	328752.34	368486.62	Set 1–1/8" Copper Survey Marker in sidewalk
639	55+06.38	111.04 Lt	328779.10	368557.52	Found 5/8" Rebar with Yellow Plastic Cap 0.4' below grade
638	56+05.11	34.09 Lt	328645.43	368515.65	Found 5/8" Rebar 0.5' below grade
620	56+56.83	0.12 Rt	328589.10	368485.47	Found 1–1/2" Aluminum Cap 0.05' above pavement
21	57+20.53	34.41 Lt	328525.50	368520.19	Set 1–1/8" Copper Survey Marker in sidewalk
622	57+41.13	43.95 Lt	328504.92	368529.79	Found 1–1/2" Aluminum Cap flush with pavement
621	57+41.16	30.05 Lt	328504.85	368515.89	Found 1–1/2" Aluminum Cap 0.05' above pavement
682	–	–	328474.90	368515.98	Found 2" Aluminum Cap 0.6' below grade

Horizontal Control – Defiance Street Alignment					
Point	Station	Offset	Northing	Easting	Description
620	25+40.91	84.29 Lt	328589.10	368485.47	Found 1–1/2" Aluminum Cap 0.05' above pavement
621	25+71.07	0.05 Rt	328504.85	368515.89	Found 1–1/2" Aluminum Cap 0.05' above pavement
682	25+71.07	30.00 Rt	328474.90	368515.98	Found 2" Aluminum Cap 0.6' below grade
21	25+75.44	20.58 Lt	328525.50	368520.19	Set 1–1/8" Copper Survey Marker in sidewalk
622	25+84.97	0.02 Rt	328504.92	368529.79	Found 1–1/2" Aluminum Cap flush with pavement
22	26+65.78	45.88 Lt	328523.38	368630.23	Set 1–1/8" Copper Survey Marker in sidewalk
678	26+75.92	81.10 Lt	328545.25	368661.36	Found 5/8" Rebar 0.45' below grade
679	26+90.64	88.31 Lt	328537.00	368684.03	Found 5/8" Rebar 0.2' below grade
623	26+94.90	0.04 Rt	328466.71	368630.23	Found 1–1/2" Aluminum Cap 0.05' below pavement
624	26+94.95	38.58 Lt	328495.46	368656.02	Found 1–1/2" Aluminum Cap flush with pavement
680	27+34.40	47.13 Lt	328462.59	368695.39	Found 5/8" Rebar 0.5' below grade, bent slightly
23	27+88.29	19.36 Lt	328391.64	368695.58	Set 1–1/8" Copper Survey Marker in sidewalk
681	27+89.47	29.86 Lt	328392.54	368706.14	Found 5/8" Rebar with Yellow Plastic Cap 1.0' below grade
625	28+20.53	0.06 Rt	328355.47	368680.19	Found 1–1/2" Aluminum Cap flush with pavement
626	28+60.58	0.06 Rt	328315.42	368680.31	Found 1–1/2" Aluminum Cap 0.05' above pavement

Horizontal Control – Ridgelake Circle Alignment					
Point	Station	Offset	Northing	Easting	Description
615	–	–	328754.39	368446.58	Found 1–1/2" Aluminum Cap 0.05' below pavement
19	90+34.89	18.40 Rt	328752.34	368486.62	Set 1–1/8" Copper Survey Marker in sidewalk
616	90+76.21	0.00 Rt	328787.13	368515.51	Found 2" Aluminum Cap flush with pavement
639	91+10.31	25.80 Rt	328779.10	368557.52	Found 5/8" Rebar with Yellow Plastic Cap 0.4' below grade, leaning
20	91+42.65	34.30 Rt	328785.81	368590.28	Set 1–1/8" Copper Survey Marker in sidewalk
647	91+74.56	24.82 Lt	328852.95	368592.70	Found 5/8" Rebar with Yellow Plastic Cap 0.3' below grade
617	92+18.51	0.01 Lt	328850.16	368643.10	Found 2" Aluminum Cap flush with pavement
646	–	–	328872.89	368632.09	Found 5/8" Rebar with Yellow Plastic Cap 0.4' below grade, leaning
644	92+19.43	43.75 Lt	328868.71	368682.72	Found 5/8" Rebar with Yellow Plastic Cap flush with ground
643	92+42.26	49.93 Lt	328850.98	368698.38	Found 5/8" Rebar with Yellow Plastic Cap flush with ground
618	92+43.49	0.00 Rt	328827.76	368654.16	Found 2" Aluminum Cap flush with pavement
645	–	–	328829.76	368704.05	Found 5/8" Rebar with Yellow Plastic Cap 0.4' below grade
619	92+83.51	0.03 Rt	328787.74	368654.21	Found 2" Aluminum Cap 0.05' below pavement
642	93+06.56	44.37 Lt	328764.77	368698.65	Found 5/8" Rebar with Yellow Plastic Cap flush with ground
640	93+25.69	26.80 Rt	328745.51	368627.51	Found 5/8" Rebar with Yellow Plastic Cap 0.6' below grade
641	93+33.35	3.49 Lt	328737.91	368657.82	Found 5/8" Rebar with Yellow Plastic Cap 0.4' below grade

- LEGEND**
- Existing Aluminum Cap
 - Existing Rebar or Iron Pipe
 - Control set by CRW
 - Control Point Number

RECORD DRAWING

THIS WILL SERVE TO CERTIFY THAT THESE RECORD DRAWINGS ARE A TRUE AND ACCURATE REPRESENTATION OF THE PROJECT AS CONSTRUCTED.

CONTRACTOR: _____

BY: _____

TITLE: _____

DATE: _____

DATA	DRAWN BY	CHECKED BY
BASE	TS	MJ
TOPOGRAPHY	TS	MJ
PROFILE	RB	JK
STORM SEWER	JH	JK
WATER/SANITARY SEWER	MV	JK
GAS	MV	JK
TELEPHONE	MV	JK
ELECTRIC	TK	BM
DESIGN	RB	JK
QUANTITIES	RB	JK
PRELIMINARY/FINAL	RB	JK
MUNICIPAL/STATE	RB	JK

FIELD BOOKS	BM NO.	LOCATION	ELEV.	REV.	DATE	DESCRIPTION	BY
DESIGN CRW Books 147, 148, & 151	GAAB 66	See page D–24 of the MOA Benchmark Book	238.10				
	GAAB 98	See page D–26 of the MOA Benchmark Book	313.83				

STAKING							
ASBUILT							
CONTRACTOR							
INSPECTOR							

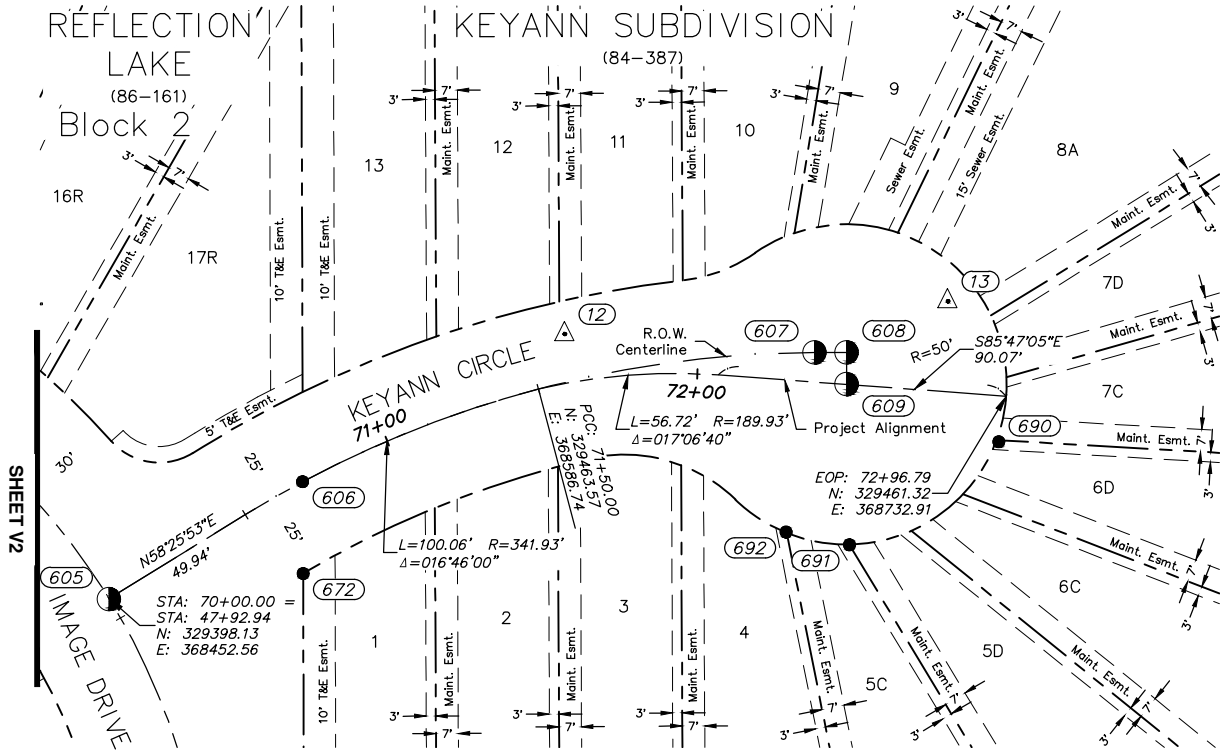
BASIS OF THIS DATUM GAAB 1972 ADJUST

PLAN CHECK	CONSTRUCTION RECORD	VERTICAL DATUM	REVISIONS	CONSULTANT	SEAL
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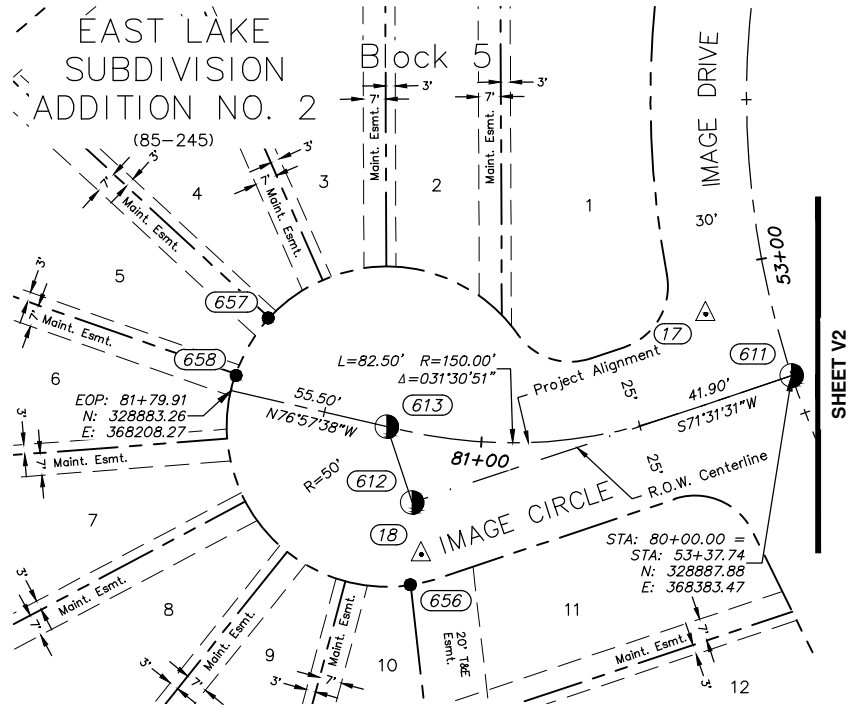
3940 ARCTIC BLVD. SUITE 300
ANCHORAGE, ALASKA 99503
PHONE: (907) 562-3252
#AEC1882-AK

PROJECT MANAGEMENT AND ENGINEERING DEPARTMENT		
14–50	IMAGE DRIVE / REFLECTION DRIVE AREA ROAD RECONSTRUCTION – PHASE 2	ALL
SURVEY CONTROL SHEET		
IMAGE DRIVE, RIDGELAKE CIRCLE & DEFIANCE STREET EOP		
SCALE HOR. 1"=30' VER. N/A	GRID SW638, SW1738 DATE SEPT 2019 STATUS 65%	SHEET V3 of V4

File: I:\JobData\10133.00 Image Reflection Area Reconstruction\00 CADD\01 Working Set\02 Survey Control\10133.00 SCS Phase 2 Sheet V4.dwg



Horizontal Control – Keyann Circle Alignment					
Point	Station	Offset	Northing	Easting	Description
605	–	–	329397.92	368452.52	Found 1–1/2" Aluminum Cap flush with pavement
672	70+56.20	25.10 Rt	329405.89	368513.23	Found 1/2" Rebar 1.2' below grade
606	70+70.65	0.00 Lt	329434.59	368513.07	Found 5/8" Rebar 0.05' below pavement
12	71+61.01	15.21 Lt	329480.73	368594.98	Set 1–1/8" Copper Survey Marker in top back of curb
692	72+31.35	47.41 Rt	329418.85	368664.16	Found 5/8" Rebar 0.1' below grade, bent
607	72+36.05	9.20 Lt	329474.96	368673.01	Found 1–1/2" Aluminum Cap 0.05' above pavement
608	72+46.07	9.99 Lt	329475.01	368683.06	Found 1–1/2" Aluminum Cap 0.05' above pavement
609	72+46.81	0.04 Lt	329465.03	368683.06	Found 1–1/2" Aluminum Cap 0.1' below pavement
691	72+51.40	49.93 Rt	329414.86	368683.97	Found 5/8" Rebar 0.2' below grade, bent
13	72+76.48	28.25 Lt	329490.99	368714.73	Set 1–1/8" Copper Survey Marker in top back of curb
690	72+95.54	14.41 Rt	329447.04	368730.60	Found 1/2" Rebar 0.1' below grade



Horizontal Control – Image Circle Alignment					
Point	Station	Offset	Northing	Easting	Description
611	80+00.05	0.02 Rt	328887.88	368383.41	Found 1–1/2" Aluminum Cap flush with pavement
17	80+19.40	26.74 Rt	328907.09	368356.59	Set 1–1/8" Copper Survey Marker in sidewalk
18	81+13.17	37.02 Lt	328832.02	368267.75	Set 1–1/8" Copper Survey Marker in top back of curb
656	81+14.67	46.90 Lt	328822.56	368264.30	Found 5/8" Rebar 0.15' below grade
612	81+17.79	21.54 Lt	328848.21	368264.90	Found 1–1/2" Aluminum Cap flush with pavement
613	81+29.92	0.08 Lt	328871.90	368256.96	Found 1–1/2" Aluminum Cap 0.05' below pavement
657	81+73.71	24.66 Rt	328905.88	368219.88	Found 5/8" Rebar 0.9' below grade
658	81+79.43	4.92 Rt	328887.94	368209.86	Found 5/8" Rebar 1.2' below grade, leaning

- LEGEND
- Existing Aluminum Cap
 - Existing Rebar or Iron Pipe
 - Control set by CRW
 - Control Point Number

RECORD DRAWING

THIS WILL SERVE TO CERTIFY THAT THESE RECORD DRAWINGS ARE A TRUE AND ACCURATE REPRESENTATION OF THE PROJECT AS CONSTRUCTED.

CONTRACTOR: _____

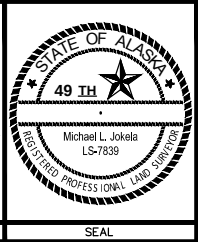
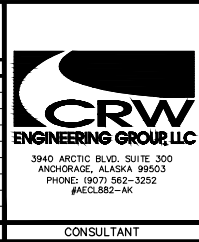
BY: _____

TITLE: _____

DATE: _____

DATA	DRAWN BY	CHECKED BY
BASE	TS	MJ
TOPOGRAPHY	TS	MJ
PROFILE	RB	JK
STORM SEWER	JH	JK
WATER/SANITARY SEWER	MV	JK
GAS	MV	JK
TELEPHONE	MV	JK
ELECTRIC	TK	BM
DESIGN	RB	JK
QUANTITIES	RB	JK
PRELIMINARY/FINAL	RB	JK
MUNICIPAL/STATE	RB	JK

GRAPHIC SCALE					
60	30	0	30	60	
FIELD BOOKS		BM NO.	LOCATION	ELEV.	REV.
DESIGN CRW Books 147, 148, & 151		GAAB 66	See page D-24 of the MOA Benchmark Book	238.10	
		GAAB 98	See page D-26 of the MOA Benchmark Book	313.83	
STAKING					
ASBUILT					
CONTRACTOR					
INSPECTOR					
BASIS OF THIS DATUM		GAAB 1972 ADJUST			
PLAN CHECK		CONSTRUCTION RECORD		VERTICAL DATUM	
				REVISIONS	
				CONSULTANT	
				SEAL	



PROJECT MANAGEMENT AND ENGINEERING DEPARTMENT		
14-50	IMAGE DRIVE / REFLECTION DRIVE AREA ROAD RECONSTRUCTION – PHASE 2	ALL
SURVEY CONTROL SHEET		
KEYANN CIRCLE & IMAGE CIRCLE		
SCALE	HOR. 1"=30' VER. N/A	GRID SW1638, SW1738
DATE	SEPT 2019	STATUS 65%
SHEET	V4 of V4	



① CLEAR AND GRUB WITHIN LIMITS OF DISTURBANCE AFTER CLEARING LIMITS HAVE BEEN APPROVED AND AFTER TEMPORARY TREE PROTECTION FENCES (SECTION 75.12) HAVE BEEN ESTABLISHED AS SHOWN, OR AS DIRECTED BY THE ENGINEER IN THE FIELD (SECTION 20.04). NOT ALL TREES, SHRUBS, AND VEGETATION ARE SPECIFICALLY CALLED OUT OR SHOWN.

③ REMOVE CURB AND GUTTER (SECTION 20.08).

⑤ REMOVE PIPE (SECTION 70.07).

⑥ REMOVE AND RESET FENCE (SECTION 70.08)

⑦ REMOVE FENCE (SECTION 70.08).

⑩ RELOCATE MAILBOX OR CLUSTER MAILBOX UNIT (SECTION 70.17).

(11) REMOVAL/DISPOSAL AND/OR SALVAGE/INSTALLATION OF OBSTRUCTIONS (SECTION 70.22) SEE NOTE 3.

⑭ REMOVE JUNCTION BOX (SECTION 80.08).

⑮ REMOVE LUMINAIRE POLE (SECTION 80.28).

⑩ REMOVE LOAD CENTER (SECTION 80.28).

⑰ *PROTECT IN PLACE*

 REMOVAL OF PAVEMENT (SECTION 20.09) AND/OR, SIDEWALK, CURB & GUTTER, AND CONCRETE, AS SHOWN & NOTED IN SUMMARY TABLES.

--- APPROXIMATE LIMITS OF DISTURBANCE

\\ \ REMOVE PIPE

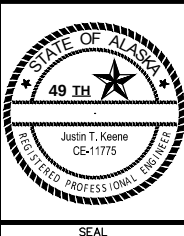
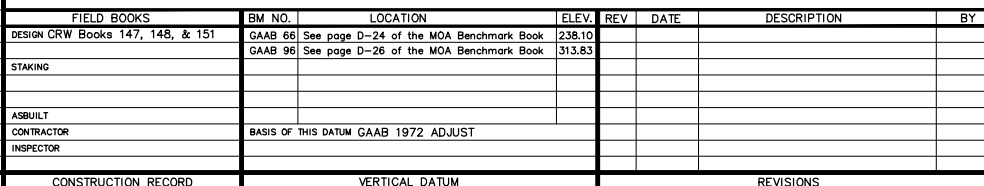
---X--X--X-- TEMPORARY TREE PROTECTION FENCE (SECTION 75.12), LOCATIONS TO BE FIELD VERIFIED, SEE DETAIL 1 ON SHEET B10.

1. SEE SUMMARY TABLE SHEETS B7 - B11 FOR STATION AND OFFSET OF DEMOLITION ITEMS.

2. SEE ROADWAY IMPROVEMENTS (R) SHEETS FOR DRIVEWAY RECONSTRUCTION LIMITS.

3. EXISTING PRIVATE LANDSCAPING FEATURES SUCH AS RETAINING WALLS, TIMBERS, PLANTERS, LANDSCAPING ROCKS, ETC. ARE LOCATED IN THE ROW AND/OR ON PROPERTY WITHIN THE WORK ZONE. CONTRACTOR SHALL REMOVE ITEMS AS DESCRIBED IN THESE DEMOLITION PLANS OR AS DIRECTED BY THE ENGINEER IN THE FIELD. IN EACH CASE, THE CONTRACTOR AND THE ENGINEER SHALL COORDINATE WITH PROPERTY OWNER. IF PROPERTY OWNER WISHES TO SALVAGE ITEMS THAT ARE CURRENTLY IN ROW AND NOT ALLOWED TO BE REINSTALLED THERE, CONTRACTOR SHALL PLACE ITEMS ON OWNER'S PROPERTY. IF OWNER DOES NOT WANT ITEMS PLACED ON PROPERTY, CONTRACTOR SHALL DISPOSE OF REMOVED ITEMS AT A CONTRACTOR-SUPPLIED LOCATION. MATERIALS TO BE REINSTALLED ON PROPERTY OR ALLOWED TO BE REINSTALLED IN THE ROW SHALL BE CAREFULLY REMOVED, PROTECTED AND STORED BY THE CONTRACTOR UNTIL READY TO BE REINSTALLED. IT SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO NOTIFY THE ENGINEER OF EXISTING DAMAGE TO ITEMS TO BE SALVAGED PRIOR TO REMOVAL. UNLESS OTHERWISE DIRECTED BY THE ENGINEER IN WRITING PRIOR TO REMOVAL, IF ANY SALVAGED ITEMS ARE DAMAGED, THE CONTRACTOR SHALL REPLACE THOSE ITEMS IN KIND INCLUDING MATCHING TYPE, COLOR, AND MANUFACTURER.

DATA	DRAWN BY	CHECKED BY
BASE	TS	MJ
TOPOGRAPHY	TS	MJ
PROFILE	RB	JK
STORM SEWER	JH	JK
WATER/SANITARY SEWER	MV	JK
GAS	MV	JK
TELEPHONE	MV	JK
ELECTRIC	TK	BM
DESIGN	RB	JK
QUANTITIES	RB	JK
PRELIMINARY/FINAL	RB	JK
MUNICIPAL/STATE	RB	JK
PLAN CHECK		



14-50	IMAGE DRIVE / REFLECTION DRIVE AREA ROAD RECONSTRUCTION - PHASE 2	ALL
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BOP TO STA 43+00

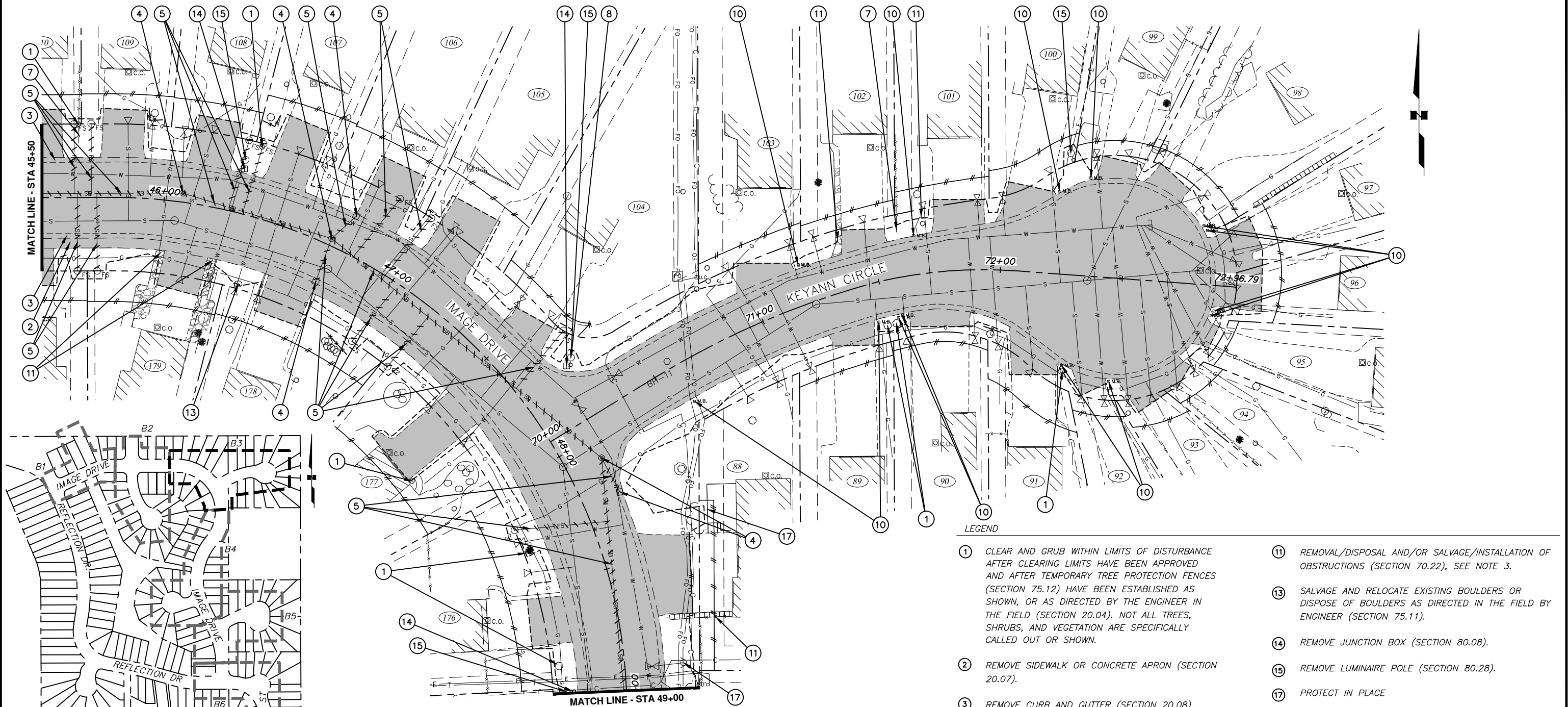
SCALE HOR. 1"=20'
VER. N/A

GRID SW1638, SW1738

DATE SEPT 2019

SHEET B1 of B11

File: s:\jobdata\10133.00 Image Reflection Area Reconstruction\00 CADD\01 Civil\Phase 2\10133.00 Demolition Plan - Phase 2.dwg



NOTES:

- SEE SUMMARY TABLE SHEETS B7 - B10 FOR STATION AND OFFSET OF DEMOLITION ITEMS.
- SEE ROADWAY IMPROVEMENTS (R) SHEETS FOR DRIVEWAY RECONSTRUCTION LIMITS.
- EXISTING PRIVATE LANDSCAPING FEATURES SUCH AS RETAINING WALLS, TIMBERS, PLANTERS, LANDSCAPING ROCKS, ETC. ARE LOCATED IN THE ROW AND/OR ON PROPERTY WITHIN THE WORK ZONE. CONTRACTOR SHALL REMOVE ITEMS AS DESCRIBED IN THESE DEMOLITION PLANS OR AS DIRECTED BY THE ENGINEER IN THE FIELD. IN EACH CASE, THE CONTRACTOR AND THE ENGINEER SHALL COORDINATE WITH PROPERTY OWNER. IF PROPERTY OWNER WISHES TO SALVAGE ITEMS THAT ARE CURRENTLY IN ROW AND NOT ALLOWED TO BE REINSTALLED THERE, CONTRACTOR SHALL PLACE ITEMS ON OWNER'S PROPERTY. IF OWNER DOES NOT WANT ITEMS PLACED ON PROPERTY, CONTRACTOR SHALL DISPOSE OF REMOVED ITEMS AT A CONTRACTOR-SUPPLIED LOCATION. MATERIALS TO BE REINSTALLED ON PROPERTY OR ALLOWED TO BE REINSTALLED IN THE ROW SHALL BE CAREFULLY REMOVED, PROTECTED AND STORED BY THE CONTRACTOR UNTIL READY TO BE REINSTALLED. IT SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO NOTIFY THE ENGINEER OF EXISTING DAMAGE TO ITEMS TO BE SALVAGED PRIOR TO REMOVAL. UNLESS OTHERWISE DIRECTED BY THE ENGINEER IN WRITING PRIOR TO REMOVAL, IF ANY SALVAGED ITEMS ARE DAMAGED, THE CONTRACTOR SHALL REPLACE THOSE ITEMS IN KIND INCLUDING MATCHING TYPE, COLOR, AND MANUFACTURER.

- LEGEND
- | | | | |
|---|--|---|--|
| ① | CLEAR AND GRUB WITHIN LIMITS OF DISTURBANCE AFTER CLEARING LIMITS HAVE BEEN APPROVED AND AFTER TEMPORARY TREE PROTECTION FENCES (SECTION 75.12) HAVE BEEN ESTABLISHED AS SHOWN, OR AS DIRECTED BY THE ENGINEER IN THE FIELD (SECTION 20.04). NOT ALL TREES, SHRUBS, AND VEGETATION ARE SPECIFICALLY CALLED OUT OR SHOWN. | ⑪ | REMOVAL/DISPOSAL AND/OR SALVAGE/INSTALLATION OF OBSTRUCTIONS (SECTION 70.22), SEE NOTE 3. |
| ② | REMOVE SIDEWALK OR CONCRETE APRON (SECTION 20.07). | ⑬ | SALVAGE AND RELOCATE EXISTING BOULDERS OR DISPOSE OF BOULDERS AS DIRECTED IN THE FIELD BY ENGINEER (SECTION 75.11). |
| ③ | REMOVE CURB AND GUTTER (SECTION 20.08). | ⑭ | REMOVE JUNCTION BOX (SECTION 80.08). |
| ④ | REMOVE MANHOLE, CATCH BASIN, OR CLEANOUT (SECTION 55.11). | ⑮ | REMOVE LUMINAIRE POLE (SECTION 80.28). |
| ⑤ | REMOVE PIPE (SECTION 70.07). | ⑰ | PROTECT IN PLACE |
| ⑦ | REMOVE FENCE (SECTION 70.08). | | REMOVAL OF PAVEMENT (SECTION 20.09) AND/OR, SIDEWALK, CURB & GUTTER, AND CONCRETE, AS SHOWN & NOTED IN SUMMARY TABLES. |
| ⑧ | REMOVE AND SALVAGE SIGN. THIS WORK SHALL BE INCIDENTAL TO THE BID ITEM STANDARD SIGNS (SECTION 70.11). | | --- APPROXIMATE LIMITS OF DISTURBANCE |
| ⑩ | RELOCATE MAILBOX OR CLUSTER MAILBOX UNIT (SECTION 70.17). | | \\ \\ REMOVE PIPE |
| | | | --- TEMPORARY TREE PROTECTION FENCE (SECTION 75.12), LOCATIONS TO BE FIELD VERIFIED, SEE DETAIL 1 ON SHEET B10 FOR FENCE DETAIL. |

RECORD DRAWING

1. DATA PROVIDED BY: _____ TITLE: _____

THIS WILL SERVE TO CERTIFY THAT THESE RECORD DRAWINGS ARE A TRUE AND ACCURATE REPRESENTATION OF THE PROJECT AS CONSTRUCTED.

CONTRACTOR: _____ DATE: _____

BY: _____

2. DATA TRANSFERRED BY: _____ TITLE: _____

COMPANY: _____ DATE: _____

3. BASED ON PERIODIC FIELD OBSERVATIONS BY THE ENGINEER (OR AN INDIVIDUAL UNDER HIS/HER DIRECT SUPERVISION), THE CONTRACTOR-PROVIDED DATA APPEARS TO REPRESENT THE PROJECT AS CONSTRUCTED.

DATA TRANSFER CHECKED BY: _____ TITLE: _____

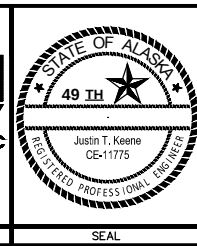
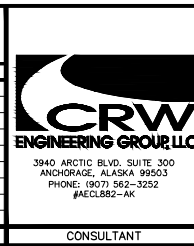
COMPANY: _____ DATE: _____

BY: _____

DATA	DRAWN BY	CHECKED BY
BASE	TS	MJ
TOPOGRAPHY	TS	MJ
PROFILE	RB	JK
STORM SEWER	JH	JK
WATER/SANITARY SEWER	MV	JK
GAS	MV	JK
TELEPHONE	MV	JK
ELECTRIC	TK	BM
DESIGN	RB	JK
QUANTITIES	RB	JK
PRELIMINARY/FINAL	RB	JK
MUNICIPAL/STATE	RB	JK

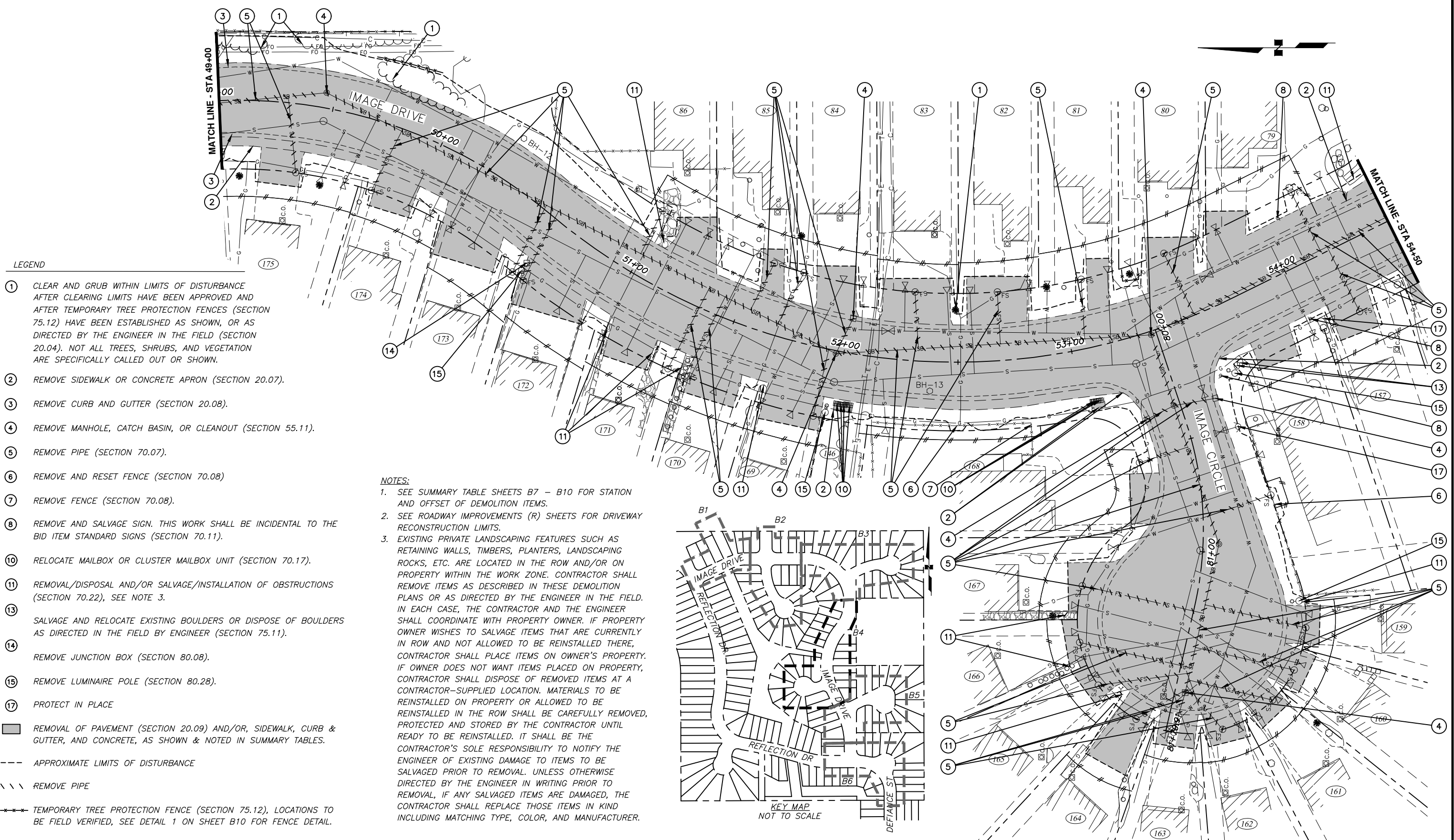
FIELD BOOKS	BM NO.	LOCATION	ELEV.	REV	DATE	DESCRIPTION	BY
DESIGN CRW Books 147, 148, & 151	GAAB 66	See page D-24 of the MOA Benchmark Book	238.10				
	GAAB 96	See page D-26 of the MOA Benchmark Book	313.83				
STAKING							
ASBUILT							
CONTRACTOR							
INSPECTOR							
BASIS OF THIS DATUM GAAB 1972 ADJUST							

GRAPHIC SCALE 40 20 0 20 40



PROJECT MANAGEMENT AND ENGINEERING DEPARTMENT		
14-50	IMAGE DRIVE / REFLECTION DRIVE AREA ROAD RECONSTRUCTION - PHASE 2	ALL
DEMOLITION PLAN		
STA 45+50 TO STA 49+00 AND KEYANN CIRCLE		
SCALE HOR. 1"=20' VER. N/A	GRID SW1638, SW1738 DATE SEPT 2019 STATUS 65%	SHEET B3 of B11

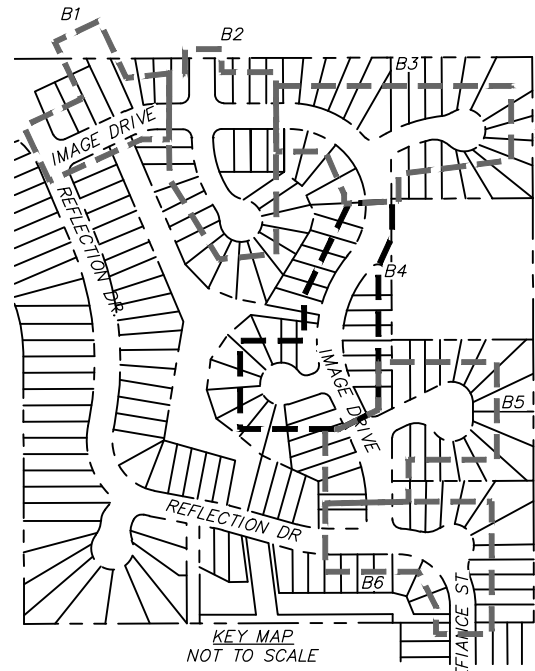
File: c:\jeb\data\10133.00 Image Reflection Area Reconstruction\00 CADD\01 Working Set\01 Civil\Phase 2\10133.00 Demolition Plan - Phase 2.dwg



- LEGEND**
- ① CLEAR AND GRUB WITHIN LIMITS OF DISTURBANCE AFTER CLEARING LIMITS HAVE BEEN APPROVED AND AFTER TEMPORARY TREE PROTECTION FENCES (SECTION 75.12) HAVE BEEN ESTABLISHED AS SHOWN, OR AS DIRECTED BY THE ENGINEER IN THE FIELD (SECTION 20.04). NOT ALL TREES, SHRUBS, AND VEGETATION ARE SPECIFICALLY CALLED OUT OR SHOWN.
 - ② REMOVE SIDEWALK OR CONCRETE APRON (SECTION 20.07).
 - ③ REMOVE CURB AND GUTTER (SECTION 20.08).
 - ④ REMOVE MANHOLE, CATCH BASIN, OR CLEANOUT (SECTION 55.11).
 - ⑤ REMOVE PIPE (SECTION 70.07).
 - ⑥ REMOVE AND RESET FENCE (SECTION 70.08)
 - ⑦ REMOVE FENCE (SECTION 70.08).
 - ⑧ REMOVE AND SALVAGE SIGN. THIS WORK SHALL BE INCIDENTAL TO THE BID ITEM STANDARD SIGNS (SECTION 70.11).
 - ⑩ RELOCATE MAILBOX OR CLUSTER MAILBOX UNIT (SECTION 70.17).
 - ⑪ REMOVAL/DISPOSAL AND/OR SALVAGE/INSTALLATION OF OBSTRUCTIONS (SECTION 70.22), SEE NOTE 3.
 - ⑬ SALVAGE AND RELOCATE EXISTING BOULDERS OR DISPOSE OF BOULDERS AS DIRECTED IN THE FIELD BY ENGINEER (SECTION 75.11).
 - ⑭ REMOVE JUNCTION BOX (SECTION 80.08).
 - ⑮ REMOVE LUMINAIRE POLE (SECTION 80.28).
 - ⑰ PROTECT IN PLACE
 - REMOVAL OF PAVEMENT (SECTION 20.09) AND/OR, SIDEWALK, CURB & GUTTER, AND CONCRETE, AS SHOWN & NOTED IN SUMMARY TABLES.
 - APPROXIMATE LIMITS OF DISTURBANCE
 - \\ REMOVE PIPE
 - TEMPORARY TREE PROTECTION FENCE (SECTION 75.12), LOCATIONS TO BE FIELD VERIFIED, SEE DETAIL 1 ON SHEET B10 FOR FENCE DETAIL.

NOTES:

- SEE SUMMARY TABLE SHEETS B7 - B10 FOR STATION AND OFFSET OF DEMOLITION ITEMS.
- SEE ROADWAY IMPROVEMENTS (R) SHEETS FOR DRIVEWAY RECONSTRUCTION LIMITS.
- EXISTING PRIVATE LANDSCAPING FEATURES SUCH AS RETAINING WALLS, TIMBERS, PLANTERS, LANDSCAPING ROCKS, ETC. ARE LOCATED IN THE ROW AND/OR ON PROPERTY WITHIN THE WORK ZONE. CONTRACTOR SHALL REMOVE ITEMS AS DESCRIBED IN THESE DEMOLITION PLANS OR AS DIRECTED BY THE ENGINEER IN THE FIELD. IN EACH CASE, THE CONTRACTOR AND THE ENGINEER SHALL COORDINATE WITH PROPERTY OWNER. IF PROPERTY OWNER WISHES TO SALVAGE ITEMS THAT ARE CURRENTLY IN ROW AND NOT ALLOWED TO BE REINSTALLED THERE, CONTRACTOR SHALL PLACE ITEMS ON OWNER'S PROPERTY. IF OWNER DOES NOT WANT ITEMS PLACED ON PROPERTY, CONTRACTOR SHALL DISPOSE OF REMOVED ITEMS AT A CONTRACTOR-SUPPLIED LOCATION. MATERIALS TO BE REINSTALLED ON PROPERTY OR ALLOWED TO BE REINSTALLED IN THE ROW SHALL BE CAREFULLY REMOVED, PROTECTED AND STORED BY THE CONTRACTOR UNTIL READY TO BE REINSTALLED. IT SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO NOTIFY THE ENGINEER OF EXISTING DAMAGE TO ITEMS TO BE SALVAGED PRIOR TO REMOVAL. UNLESS OTHERWISE DIRECTED BY THE ENGINEER IN WRITING PRIOR TO REMOVAL, IF ANY SALVAGED ITEMS ARE DAMAGED, THE CONTRACTOR SHALL REPLACE THOSE ITEMS IN KIND INCLUDING MATCHING TYPE, COLOR, AND MANUFACTURER.



RECORD DRAWING

1. DATA PROVIDED BY: _____ TITLE: _____

THIS WILL SERVE TO CERTIFY THAT THESE RECORD DRAWINGS ARE A TRUE AND ACCURATE REPRESENTATION OF THE PROJECT AS CONSTRUCTED.

CONTRACTOR: _____ DATE: _____

BY: _____ TITLE: _____

2. DATA TRANSFERRED BY: _____ TITLE: _____

COMPANY: _____ DATE: _____

3. BASED ON PERIODIC FIELD OBSERVATIONS BY THE ENGINEER (OR AN INDIVIDUAL UNDER HIS/HER DIRECT SUPERVISION), THE CONTRACTOR-PROVIDED DATA APPEARS TO REPRESENT THE PROJECT AS CONSTRUCTED.

DATA TRANSFER CHECKED BY: _____ TITLE: _____

COMPANY: _____ DATE: _____

BY: _____

DATA	DRAWN BY	CHECKED BY
BASE	TS	MJ
TOPOGRAPHY	TS	MJ
PROFILE	RB	JK
STORM SEWER	JH	JK
WATER/SANITARY SEWER	MV	JK
GAS	MV	JK
TELEPHONE	MV	JK
ELECTRIC	TK	BM
DESIGN	RB	JK
QUANTITIES	RB	JK
PRELIMINARY/FINAL	RB	JK
MUNICIPAL/STATE	RB	JK

FIELD BOOKS	BM NO.	LOCATION	ELEV.	REV	DATE	DESCRIPTION	BY
DESIGN CRW Books 147, 148, & 151	GAAB 66	See page D-24 of the MOA Benchmark Book	238.10				
	GAAB 96	See page D-26 of the MOA Benchmark Book	313.83				

STAKING							
ASBUILT							
CONTRACTOR							
INSPECTOR							

BASIS OF THIS DATUM GAAB 1972 ADJUST

PLAN CHECK	CONSTRUCTION RECORD	VERTICAL DATUM	REVISIONS	CONSULTANT	SEAL
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3940 ARCTIC BLVD. SUITE 300
ANCHORAGE, ALASKA 99503
PHONE: (907) 562-3252
#AECCL882-AK

STATE OF ALASKA
49 TH
Justin T. Keane
CE-11775
REGISTERED PROFESSIONAL ENGINEER

MUNICIPALITY OF ANCHORAGE

PROJECT MANAGEMENT AND ENGINEERING DEPARTMENT

14-50 IMAGE DRIVE / REFLECTION DRIVE AREA
ROAD RECONSTRUCTION - PHASE 2

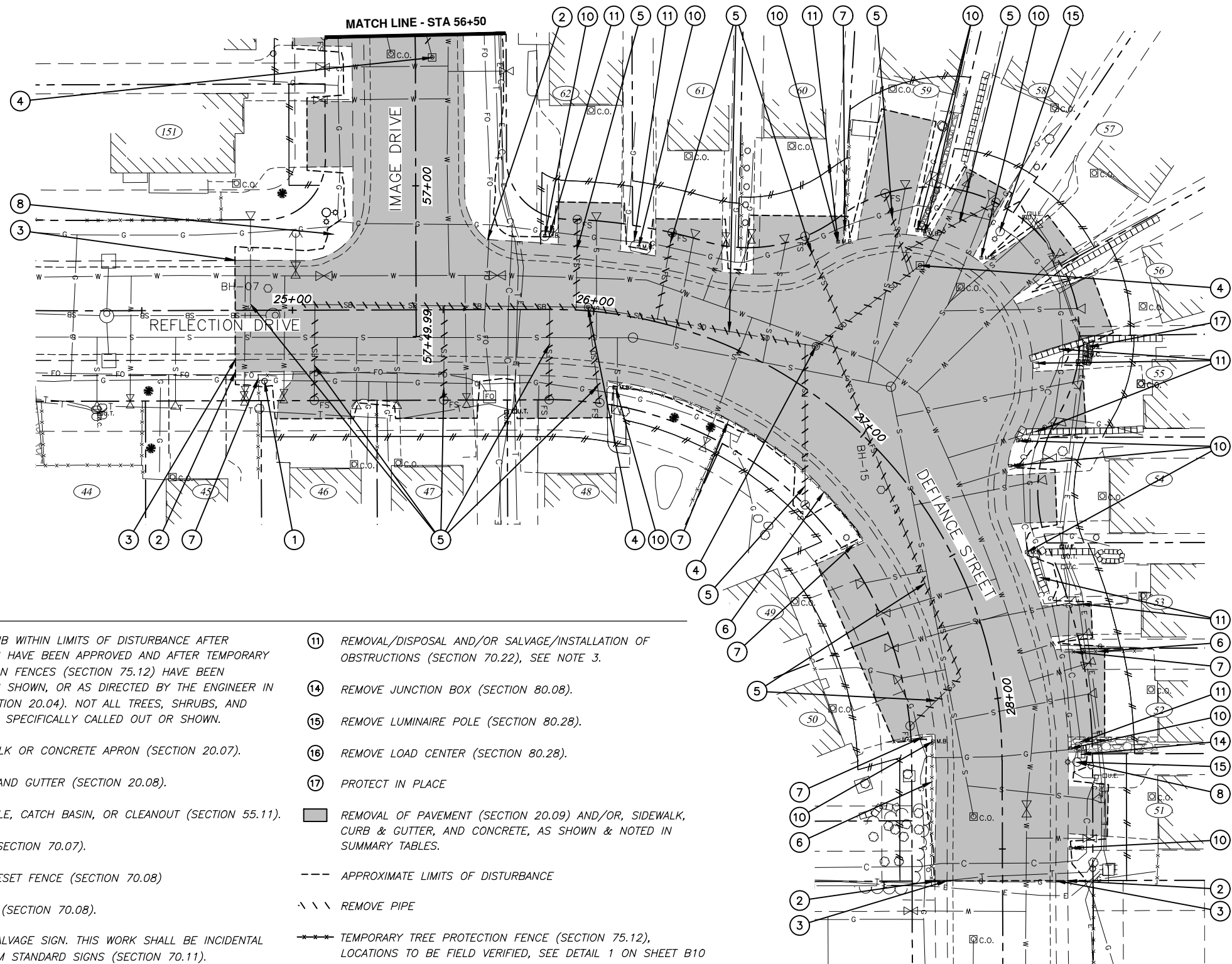
DEMOLITION PLAN

STA 49+00 TO STA 54+50
AND IMAGE CIRCLE

SCALE HOR. 1"=20'
VER. N/A

GRID SW1638, SW1738

DATE SEPT 2019 STATUS 65% SHEET B4 of B11



20.07

REMOVE SIDEWALK OR CONCRETE APRON

②

SHEET	APPX STATION BEGIN	APPX OFFSET (FT)	APPX STATION END	APPX OFFSET (FT)	AREA (SY)	REMARKS
B1	40+36.0	20.6 RT	43+00.0	20.8 RT	114	IMAGE DRIVE SIDEWALK
B1	41+87.1	21.6 LT	41+87.1	21.6 LT	4	IMAGE DRIVE MAILBOX PAD
B2	43+00.0	20.8 RT	43+54.0	20.5 RT	23	IMAGE DRIVE SIDEWALK
B2	43+99.9	20.6 RT	45+50.0	20.7 RT	65	IMAGE DRIVE SIDEWALK
B2	60+76.0	20.5 RT	61+75.8	20.4 RT	43	MIRAGE CIRCLE SIDEWALK
B2	62+47.0	18.6 LT	62+47.0	18.6 LT	5	MIRAGE CIRCLE MAILBOX PAD
B2	62+99.1	18.6 RT	62+99.1	18.6 RT	5	MIRAGE CIRCLE MAILBOX PAD
B3	45+50.0	20.7 RT	49+00.0	19.8 RT	143	IMAGE DRIVE SIDEWALK
B4	49+00.0	19.8 RT	53+16.9	22.4 RT	183	IMAGE DRIVE SIDEWALK
B4	51+56.8	20.6 RT	51+60.7	20.6 RT	8	PARCEL 170 SIDEWALK
B4	52+03.5	23.7 RT	52+03.5	23.7 RT	3	IMAGE DRIVE MAILBOX PAD
B4	53+06.6	24.4 RT	53+06.6	24.4 RT	3	IMAGE DRIVE MAILBOX PAD
B4	53+59.3	21.6 RT	54+50.0	21.0 RT	39	IMAGE DRIVE SIDEWALK
B4	54+39.9	19.3 LT	54+50.0	20.8 LT	5	IMAGE DRIVE SIDEWALK
B5	54+50.0	21.0 RT	56+50.0	21.0 RT	85	IMAGE DRIVE SIDEWALK
B5	54+50.0	20.8 LT	55+31.1	19.5 LT	278	RIDGELAKE CIRCLE SIDEWALK
B5	55+12.0	24.1 RT	55+12.0	24.1 RT	2	IMAGE DRIVE MAILBOX PAD
B5	55+20.7	24.2 RT	55+20.7	24.2 RT	2	IMAGE DRIVE MAILBOX PAD
B6	56+50.0	21.0 RT	57+15.1	20.9 RT	27	IMAGE DRIVE SIDEWALK
B6	24+81.0	20.3 RT	28+60.3	22.4 RT	154	DEFIANCE STREET SIDEWALK
B6	25+64.8	23.2 LT	28+60.6	21.5 LT	165	REFLECTION DRIVE/DEFIANCE STREET SIDEWALK

20.08

REMOVE CURB AND GUTTER

③

SHEET	APPX STATION BEGIN	APPX OFFSET (FT)	APPX STATION END	APPX OFFSET (FT)	LENGTH (FT)	REMARKS
B1	40+36.0	16.5 LT	43+00.0	16.3 LT	271	IMAGE DRIVE
B1	40+36.0	16.6 RT	43+00.0	16.7 RT	257	IMAGE DRIVE
B2	43+00.0	16.3 LT	60+75.1	16.6 RT	161	IMAGE DRIVE/MIRAGE CIRCLE
B2	43+00.0	16.7 RT	45+50.0	16.6 RT	854	IMAGE DRIVE/MIRAGE CIRCLE
B2	60+75.6	16.4 LT	45+50.0	16.4 LT	256	IMAGE DRIVE/MIRAGE CIRCLE
B3	45+50.0	16.6 LT	49+00.0	16.3 LT	932	IMAGE DRIVE/KEYANN CIRCLE
B3	45+50.0	16.6 RT	49+00.0	15.9 RT	325	IMAGE DRIVE
B4	49+00.0	16.3 LT	54+50.0	16.5 LT	543	IMAGE DRIVE
B4	49+00.0	15.9 RT	54+50.0	17.0 RT	878	IMAGE DRIVE/IMAGE CIRCLE
B5	54+50.0	16.5 LT	56+50.0	16.0 LT	753	IMAGE DRIVE/RIDGELAKE CIRCLE
B5	54+50.0	17.0 RT	56+50.0	17.1 RT	193	IMAGE DRIVE
B5	54+53.7	15.8 LT	55+16.7	15.9 LT	64	IMAGE DRIVE VALLEY GUTTER
B6	56+50.0	16.0 LT	58+60.6	17.5 LT	450	IMAGE DRIVE/DEFIANCE STREET
B6	56+50.0	17.1 RT	24+81.0	16.7 LT	109	IMAGE DRIVE/REFLECTION DRIVE
B6	24+81.0	16.2 RT	28+60.6	18.6 RT	351	REFLECTION DRIVE/DEFIANCE STREET

20.09

REMOVE PAVEMENT

SHEET	STATION TO STATION	OFFSET	AREA (SY)	REMARKS
B1	BOP TO 43+00	LT & RT	1,171	IMAGE DRIVE, DRIVEWAYS
B1	41+74 to 42+19	LT	144	SAPIN COURT
B2	43+00 TO 45+50	LT & RT	3,316	IMAGE DRIVE, MIRAGE CIRCLE, DRIVEWAYS
B3	45+50 TO 49+00	LT & RT	3,090	IMAGE DRIVE, KEYANN CIRCLE, DRIVEWAYS
B4	49+00 TO 54+50	LT & RT	3,675	IMAGE DRIVE, IMAGE CIRCLE, DRIVEWAYS
B5	54+50 TO 56+50	LT & RT	2,850	IMAGE DRIVE, RIDGELAKE CIRCLE, DRIVEWAYS
B6	56+50 TO EOP	LT & RT	2,796	IMAGE DRIVE, REFLECTION DRIVE, DEFIANCE STREET, DRIVEWAYS

NOTES: 1. SEE ROADWAY IMPROVEMENT SHEETS FOR ROADWAY PAVEMENT REMOVAL LIMITS.
2. SEE DRIVEWAY RECONSTRUCTION TABLE FOR DRIVEWAY PAVEMENT REMOVAL LIMITS.

55.11

REMOVE MANHOLE, CATCH BASIN, OR CLEANOUT

④

SHEET	APPX STATION	APPX OFFSET (FT)	CATCH BASIN	MANHOLE	CLEANOUT	REMARKS
B1	42+05.9	15.6 LT	X			
B1	42+08.0	15.8 RT	X			
B1	42+39.9	6.8 LT		X		
B2	43+80.2	1.8 LT		X		
B2	44+11.8	15.8 RT	X			
B2	44+14.1	15.7 LT	X			
B2	62+98.7	2.6 RT			X	
B3	46+07.2	3.6 LT		X		
B3	46+70.0	2.9 LT		X		
B3	46+71.6	15.9 RT	X			
B3	46+75.0	15.5 LT	X			
B3	48+08.4	14.9 LT		X		
B3	48+23.1	15.7 LT	X			
B4	49+46.1	6.6 LT		X		
B4	51+96.7	1.3 RT		X		
B4	52+01.4	15.3 LT	X			
B4	53+35.3	1.6 RT		X		
B4	80+34.1	2.8 RT		X		
B4	80+36.0	15.7 RT	X			
B4	80+36.8	15.4 LT	X			
B4	80+96.4	7.0 LT			X	
B5	90+02.0	0.5 RT		X		
B5	90+42.4	1.7 RT		X		
B5	90+46.2	15.9 RT	X			
B5	90+46.5	15.5 LT	X			
B5	92+18.5	19.0 LT		X		
B6	23+80.1	0.4 LT		X		
B6	25+97.9	1.3 LT		X		
B6	26+70.9	13.5 LT		X		
B6	26+71.5	55.3 LT			X	

RECORD DRAWING

1. DATA PROVIDED BY: _____ TITLE: _____
 THIS WILL SERVE TO CERTIFY THAT THESE RECORD DRAWINGS ARE A TRUE AND ACCURATE REPRESENTATION
 OF THE PROJECT AS CONSTRUCTED.
 CONTRACTOR: _____
 BY: _____ TITLE: _____ DATE: _____

2. DATA TRANSFERRED BY: _____ TITLE: _____
 COMPANY: _____ DATE: _____

3. BASED ON PERIODIC FIELD OBSERVATIONS BY THE ENGINEER (OR AN INDIVIDUAL UNDER HIS/HER DIRECT
 SUPERVISION), THE CONTRACTOR-PROVIDED DATA APPEARS TO REPRESENT THE PROJECT AS CONSTRUCTED.
 DATA TRANSFER CHECKED BY: _____ TITLE: _____
 COMPANY: _____ DATE: _____
 BY: _____

DATA	DRAWN BY	CHECKED BY
BASE	TS	MJ
TOPOGRAPHY	TS	MJ
PROFILE	RB	JK
STORM SEWER	JH	JK
WATER/SANITARY SEWER	MV	JK
GAS	MV	JK
TELEPHONE	MV	JK
ELECTRIC	TK	BM
DESIGN	RB	JK
QUANTITIES	RB	JK
PRELIMINARY/FINAL	RB	JK
MUNICIPAL/STATE	RB	JK

FIELD BOOKS		BM NO.	LOCATION	ELEV.	REV	DATE	DESCRIPTION	BY
DESIGN CRW Books 147, 148, & 151	GAAB 66	See page D-24 of the MOA Benchmark Book		238.10				
	GAAB 96	See page D-26 of the MOA Benchmark Book		313.83				
STAKING								
ASBUILT								
CONTRACTOR	BASIS OF THIS DATUM GAAB 1972 ADJUST							
INSPECTOR								
CONSTRUCTION RECORD		VERTICAL DATUM			REVISIONS			



PROJECT MANAGEMENT AND ENGINEERING
DEPARTMENT

14-50	IMAGE DRIVE / REFLECTION DRIVE AREA ROAD RECONSTRUCTION - PHASE 2	ALL
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DEMOLITION SUMMARY

SCALE	HOR. N/A VER. N/A	GRID SW1638, SW1738	B7 of B11
		DATE SEPT 2019	SHEET STATUS 65%

File-L:\JobData\10133.00 Image Reflection Area Reconstruction\00 CADD\01 Working Set\01 Civil\Phase 2\10133.00 Demolition Plan - Phase 2.dwg

70.07

REMOVE PIPE

5

SHEET	APPX STA BEGIN	APPX OFFSET (FT)	APPX STA END	APPX OFFSET (FT)	SIZE (INCH)	LENGTH (FT)	REMARKS
B1	42+05.7	44.9 LT	42+39.9	6.8 LT	18	55	STORM DRAIN
B1	42+05.9	15.6 LT	42+39.9	6.8 LT	12	37	STORM DRAIN
B1	42+08.0	15.8 RT	42+39.9	6.8 LT	12	38	STORM DRAIN
B1	42+39.9	6.8 LT	43+80.2	1.8 LT	18	142	STORM DRAIN
B1	42+63.9	3.1 LT	42+65.4	30.0 LT	6	27	FOOTING DRAIN
B1	42+70.8	2.8 LT	42+71.2	30.0 LT	6	27	FOOTING DRAIN
B2	43+32.0	2.3 LT	43+32.3	30.6 LT	6	28	FOOTING DRAIN
B2	43+80.2	1.8 LT	44+11.8	15.8 RT	10	36	STORM DRAIN
B2	43+80.2	1.8 LT	44+14.1	15.7 LT	10	37	STORM DRAIN
B2	43+80.2	1.8 LT	46+07.2	3.6 LT	12	227	STORM DRAIN
B2	44+22.2	1.8 LT	44+22.3	30.6 LT	6	29	FOOTING DRAIN
B2	44+82.7	1.7 LT	44+82.8	30.0 LT	6	28	FOOTING DRAIN
B2	44+87.5	1.7 LT	44+87.5	30.0 RT	6	32	FOOTING DRAIN
B2	44+92.7	1.7 LT	44+92.8	30.0 LT	6	28	FOOTING DRAIN
B2	44+93.5	1.7 LT	44+93.5	30.0 RT	6	32	FOOTING DRAIN
B2	61+98.2	3.0 LT	62+98.7	2.6 RT	8	101	STORM DRAIN
B2	62+45.2	2.6 LT	62+45.0	25.6 RT	6	28	FOOTING DRAIN
B2	62+98.7	2.6 RT	64+87.6	24.7 RT	10	196	STORM DRAIN
B2	63+00.4	2.1 RT	63+01.5	25.0 RT	6	23	FOOTING DRAIN
B2	63+05.2	0.9 RT	63+10.6	25.0 RT	6	25	FOOTING DRAIN
B2	63+22.7	2.7 LT	63+18.4	25.0 LT	6	23	FOOTING DRAIN
B2	63+62.0	6.4 LT	63+62.5	25.0 RT	6	31	FOOTING DRAIN
B2	63+63.1	6.4 LT	63+62.8	25.0 LT	6	19	FOOTING DRAIN
B2	63+70.2	6.4 LT	63+69.8	25.0 RT	6	31	FOOTING DRAIN
B2	64+40.3	4.5 RT	64+33.1	31.4 RT	6	28	FOOTING DRAIN
B2	64+44.9	5.9 RT	64+67.3	49.9 LT	6	59	FOOTING DRAIN
B2	64+48.8	7.2 RT	64+40.0	37.4 RT	6	32	FOOTING DRAIN
B2	64+68.6	15.1 RT	64+99.1	43.0 LT	6	65	FOOTING DRAIN
B2	64+81.8	21.5 RT	65+12.4	31.7 LT	6	61	FOOTING DRAIN
B2	64+82.5	21.9 RT	65+21.0	10.9 LT	6	51	FOOTING DRAIN
B2	64+82.7	22.0 RT	64+71.3	50.0 RT	6	31	FOOTING DRAIN
B2	64+83.0	2214.0 RT	65+20.4	5.1 RT	6	43	FOOTING DRAIN
B2	64+84.1	22.7 RT	64+87.8	46.6 RT	6	26	FOOTING DRAIN
B2	64+84.1	22.7 RT	65+13.2	23.7 RT	6	33	FOOTING DRAIN
B2	64+85.2	23.4 RT	65+02.1	37.3 RT	6	26	FOOTING DRAIN
B3	45+63.2	1.6 LT	45+63.3	30.0 LT	6	28	FOOTING DRAIN
B3	45+64.5	1.6 LT	45+64.5	30.0 RT	6	32	FOOTING DRAIN
B3	45+70.2	1.6 LT	45+70.3	30.0 LT	6	28	FOOTING DRAIN
B3	45+72.5	1.6 LT	45+72.5	30.0 RT	6	32	FOOTING DRAIN
B3	46+07.2	3.6 LT	46+70.0	2.9 LT	18	64	STORM DRAIN
B3	46+26.6	1.4 LT	46+28.3	30.0 LT	6	29	FOOTING DRAIN
B3	46+32.5	1.0 LT	46+33.5	30.0 LT	6	29	FOOTING DRAIN
B3	46+70.0	2.9 LT	46+71.6	15.9 RT	10	19	STORM DRAIN

70.07

REMOVE PIPE

5

SHEET	APPX STA BEGIN	APPX OFFSET (FT)	APPX STA END	APPX OFFSET (FT)	SIZE (INCH)	LENGTH (FT)	REMARKS
B3	46+70.0	2.9 LT	46+75.0	15.5 LT	10	14	STORM DRAIN
B3	46+70.0	2.9 LT	48+08.4	14.9 LT	18	142	STORM DRAIN
B3	46+81.2	0.3 LT	46+86.4	30.0 LT	6	30	FOOTING DRAIN
B3	46+96.0	2.1 RT	46+99.5	30.0 LT	6	32	FOOTING DRAIN
B3	47+02.4	2.8 RT	46+99.4	30.0 RT	6	27	FOOTING DRAIN
B3	47+20.6	3.7 RT	47+20.3	30.0 RT	6	26	FOOTING DRAIN
B3	47+67.1	1.1 LT	47+61.5	30.9 LT	6	30	FOOTING DRAIN
B3	48+08.4	14.9 LT	48+23.1	15.7 LT	10	16	STORM DRAIN
B3	48+08.4	14.9 LT	49+46.1	6.6 LT	18	142	STORM DRAIN
B3	48+31.9	6.6 LT	48+19.9	30.0 RT	6	38	FOOTING DRAIN
B4	49+30.1	2.7 LT	49+37.7	30.0 RT	6	33	FOOTING DRAIN
B4	49+46.1	6.6 LT	51+96.7	1.3 RT	18	250	STORM DRAIN
B4	49+81.7	1.2 RT	49+77.4	30.0 RT	6	29	FOOTING DRAIN
B4	50+52.8	1.9 LT	50+59.8	30.0 RT	6	33	FOOTING DRAIN
B4	50+58.6	3.2 LT	50+65.2	30.0 RT	6	34	FOOTING DRAIN
B4	50+99.5	9.1 LT	50+97.9	30.0 LT	6	21	FOOTING DRAIN
B4	51+34.2	9.3 LT	51+32.2	30.0 RT	6	39	FOOTING DRAIN
B4	51+42.4	8.7 LT	51+39.4	30.0 RT	6	39	FOOTING DRAIN
B4	51+55.1	7.4 LT	51+58.5	30.0 LT	6	23	FOOTING DRAIN
B4	51+68.7	5.3 LT	51+73.7	30.0 LT	6	25	FOOTING DRAIN
B4	51+93.3	0.3 RT	51+92.5	30.0 RT	6	30	FOOTING DRAIN
B4	51+96.7	1.3 RT	52+01.4	15.3 LT	10	17	STORM DRAIN
B4	51+96.7	1.3 RT	53+35.3	1.6 RT	12	138	STORM DRAIN
B4	52+32.4	5.4 LT	52+29.1	30.0 LT	6	25	FOOTING DRAIN
B4	52+69.1	7.3 LT	52+69.5	30.0 LT	6	23	FOOTING DRAIN
B4	53+06.7	4.3 LT	53+11.1	30.0 LT	6	26	FOOTING DRAIN
B4	53+35.3	1.6 RT	54+87.2	2.0 LT	12	152	STORM DRAIN
B4	53+56.1	0.8 LT	53+53.6	30.0 LT	6	29	FOOTING DRAIN
B4	54+17.8	1.7 LT	54+17.7	30.0 LT	6	28	FOOTING DRAIN
B4	54+21.2	1.8 LT	54+21.4	30.0 RT	6	32	FOOTING DRAIN
B4	80+01.6	2.4 RT	80+34.1	2.8 RT	12	32	STORM DRAIN
B4	80+34.1	2.8 RT	80+36.0	15.7 RT	10	13	STORM DRAIN
B4	80+34.1	2.8 RT	80+36.8	15.4 LT	10	18	STORM DRAIN
B4	80+34.1	2.8 RT	80+96.4	7.0 LT	12	64	STORM DRAIN
B4	80+53.3	2.5 RT	80+55.1	24.5 RT	6	22	FOOTING DRAIN
B4	80+84.3	2.9 LT	80+77.7	30.1 LT	6	28	FOOTING DRAIN
B4	80+96.4	7.0 LT	81+61.8	4.5 LT	12	67	STORM DRAIN
B4	81+22.5	4.3 LT	81+22.8	49.4 LT	6	45	FOOTING DRAIN
B4	81+26.2	4.3 LT	81+26.4	49.9 RT	6	54	FOOTING DRAIN
B4	81+41.6	4.4 LT	81+41.4	48.7 LT	6	44	FOOTING DRAIN
B4	81+50.7	4.4 LT	81+50.9	45.4 RT	6	50	FOOTING DRAIN
B4	81+53.0	4.4 LT	81+67.2	33.3 RT	6	40	FOOTING DRAIN
B4	81+56.1	4.5 LT	81+56.3	42.5 LT	6	38	FOOTING DRAIN
B4	81+58.8	4.5 LT	81+73.7	24.1 LT	6	25	FOOTING DRAIN
B4	81+60.5	4.5 LT	81+78.0	13.8 RT	6	25	FOOTING DRAIN
B4	81+61.8	4.5 LT	81+79.8	3.4 LT	6	18	FOOTING DRAIN

RECORD DRAWING

1. DATA PROVIDED BY: _____ TITLE: _____

THIS WILL SERVE TO CERTIFY THAT THESE RECORD DRAWINGS ARE A TRUE AND ACCURATE REPRESENTATION OF THE PROJECT AS CONSTRUCTED.

CONTRACTOR: _____

BY: _____ TITLE: _____ DATE: _____

2. DATA TRANSFERRED BY: _____ TITLE: _____

COMPANY: _____ DATE: _____

3. BASED ON PERIODIC FIELD OBSERVATIONS BY THE ENGINEER (OR AN INDIVIDUAL UNDER HIS/HER DIRECT SUPERVISION), THE CONTRACTOR-PROVIDED DATA APPEARS TO REPRESENT THE PROJECT AS CONSTRUCTED.

DATA TRANSFER CHECKED BY: _____ TITLE: _____

COMPANY: _____ DATE: _____

BY: _____

DATA	DRAWN BY	CHECKED BY
BASE	TS	MJ
TOPOGRAPHY	TS	MJ
PROFILE	RB	JK
STORM SEWER	JH	JK
WATER/SANITARY SEWER	MV	JK
GAS	MV	JK
TELEPHONE	MV	JK
ELECTRIC	TK	BM
DESIGN	RB	JK
QUANTITIES	RB	JK
PRELIMINARY/FINAL	RB	JK
MUNICIPAL/STATE	RB	JK

FIELD BOOKS	BM NO.	LOCATION	ELEV.	REV	DATE	DESCRIPTION	BY
DESIGN CRW Books 147, 148, & 151	GAAB 66	See page D-24 of the MOA Benchmark Book	238.10				
	GAAB 96	See page D-26 of the MOA Benchmark Book	313.83				
STAKING							
ASBUILT							
CONTRACTOR							
INSPECTOR							

BASIS OF THIS DATUM	GAAB 1972 ADJUST

REVISIONS



3940 ARCTIC BLVD, SUITE 300
ANCHORAGE, ALASKA 99503
PHONE: (907) 562-3252
#AECLE882-AK



49 TH
Justin T. Keene
CE-11775



PROJECT MANAGEMENT AND ENGINEERING DEPARTMENT

14-50 IMAGE DRIVE / REFLECTION DRIVE AREA ALL
ROAD RECONSTRUCTION - PHASE 2

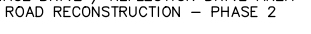
DEMOLITION SUMMARY

SCALE HOR. N/A VER. N/A GRID SW1638, SW1738 DATE SEPT 2019 STATUS 65% SHEET B8 of B11

REMOVE PIPE							⑤
SHEET	APPX STA BEGIN	APPX OFFSET (FT)	APPX STA END	APPX OFFSET (FT)	SIZE (INCH)	LENGTH (FT)	REMARKS
B5	54+58.1	1.9 LT	54+58.2	30.0 RT	6	32	FOOTING DRAIN
B5	54+87.2	2.0 LT	56+57.4	5.6 LT	12	171	STORM DRAIN
B5	55+06.9	1.6 RT	56+96.0	30.0 RT	6	30	FOOTING DRAIN
B5	55+38.2	5.1 RT	55+36.2	30.0 RT	6	25	FOOTING DRAIN
B5	56+03.1	4.1 RT	56+06.0	30.0 RT	6	26	FOOTING DRAIN
B5	56+42.2	2.0 LT	56+49.5	30.0 RT	6	33	FOOTING DRAIN
B5	90+02.0	0.5 RT	90+42.4	1.7 RT	12	40	STORM DRAIN
B5	90+42.4	1.7 RT	90+46.2	15.9 RT	10	15	STORM DRAIN
B5	90+42.4	1.7 RT	90+46.5	15.5 LT	10	18	STORM DRAIN
B5	90+42.4	1.7 RT	92+18.5	19.0 LT	12	195	STORM DRAIN
B5	90+88.5	1.3 RT	90+88.7	25.0 RT	6	24	FOOTING DRAIN
B5	91+16.3	1.0 RT	91+16.0	25.0 LT	6	26	FOOTING DRAIN
B5	91+25.0	0.9 RT	91+25.3	30.8 RT	6	30	FOOTING DRAIN
B5	91+48.9	0.7 RT	93+05.2	46.5 RT	6	59	FOOTING DRAIN
B5	91+55.6	0.7 RT	91+55.3	25.0 LT	6	26	FOOTING DRAIN
B5	91+66.7	0.5 RT	93+31.7	13.3 RT	6	98	FOOTING DRAIN
B5	91+93.5	0.3 RT	93+30.8	16.2 LT	6	110	FOOTING DRAIN
B5	91+96.1	0.3 RT	91+95.8	25.0 LT	6	25	FOOTING DRAIN
B5	91+99.5	0.2 RT	93+16.9	37.2 LT	6	109	FOOTING DRAIN
B5	92+14.2	0.1 RT	92+96.5	48.3 LT	6	97	FOOTING DRAIN
B5	92+18.5	3.5 LT	92+75.5	50.0 LT	6	81	FOOTING DRAIN
B5	92+18.5	8.0 LT	92+53.1	50.0 LT	6	65	FOOTING DRAIN
B5	92+18.5	10.2 LT	92+18.5	26.2 LT	6	24	FOOTING DRAIN
B5	92+18.5	10.7 LT	92+43.5	50.0 LT	6	50	FOOTING DRAIN
B5	92+18.5	11.8 LT	92+18.5	37.2 LT	6	26	FOOTING DRAIN
B5	92+18.5	12.6 LT	92+29.4	48.0 LT	6	37	FOOTING DRAIN
B6	23+80.1	0.4 LT	25+97.9	1.3 LT	12	218	STORM DRAIN
B6	24+21.7	2.9 LT	24+22.0	30.0 LT	6	27	FOOTING DRAIN
B6	24+48.8	2.6 LT	24+48.8	30.0 RT	6	33	FOOTING DRAIN
B6	24+65.2	2.4 LT	24+65.1	30.0 RT	6	32	FOOTING DRAIN
B6	25+07.5	1.8 LT	25+07.1	30.0 RT	6	32	FOOTING DRAIN
B6	25+50.4	1.3 LT	25+50.1	30.0 RT	6	31	FOOTING DRAIN
B6	25+85.4	0.9 LT	25+85.0	30.0 RT	6	31	FOOTING DRAIN
B6	25+94.1	1.0 LT	25+92.9	30.0 LT	6	29	FOOTING DRAIN
B6	25+97.9	1.3 LT	26+06.0	29.9 RT	6	32	FOOTING DRAIN
B6	25+97.9	1.3 LT	26+70.9	13.5 LT	12	77	STORM DRAIN
B6	26+21.1	1.0 LT	26+19.5	30.0 LT	6	29	FOOTING DRAIN
B6	26+67.8	12.2 LT	27+02.8	30.0 RT	6	53	FOOTING DRAIN
B6	26+70.9	13.5 LT	26+81.5	55.3 LT	12	44	STORM DRAIN
B6	26+72.6	19.1 LT	28+06.3	30.0 RT	6	145	FOOTING DRAIN
B6	26+74.0	23.9 LT	26+53.2	43.6 LT	6	32	FOOTING DRAIN
B6	26+80.6	50.9 LT	26+65.4	68.8 LT	6	28	FOOTING DRAIN
B6	26+80.9	52.4 LT	26+86.4	87.2 LT	6	41	FOOTING DRAIN

REMOVE AND RESET FENCE										⑥
SHEET	EXISTING LOCATION				PROPOSED LOCATION					REMARKS
	APPX BEGIN STATION	APPX BEGIN OFFSET (FT)	APPX END STATION	APPX END OFFSET (FT)	APPX BEGIN STATION	APPX BEGIN OFFSET (FT)	APPX END STATION	APPX END OFFSET (FT)	LENGTH (FT)	
B1	40+76.5	16.7 LT	40+88.5	16.6 LT	40+74.5	30.0 LT	40+88.2	30.0 LT	12.0	
B1	40+88.6	20.6 LT	41+01.8	20.6 LT	40+88.2	30.0 LT	41+02.9	30.0 LT	13.0	
B1	41+01.4	24.1 RT	41+41.3	24.3 RT	41+01.3	30.0 RT	41+41.0	30.0 RT	39.8	
B1	41+50.3	30.3 RT	41+89.6	27.9 RT	41+50.3	30.0 RT	41+89.5	30.0 RT	39.2	
B1	41+95.9	27.9 RT	43+16.5	27.4 RT	41+95.7	30.0 RT	43+16.5	30.0 RT	107.8	
B4	52+16.0	28.4 RT	52+79.0	28.3 RT	52+16.0	30.0 RT	52+78.9	30.0 RT	69.8	
B6	26+08.7	22.6 RT	27+29.0	22.9 RT	26+10.6	30.0 RT	27+27.0	30.0 RT	93.1	
B6	28+11.0	23.0 RT	28+62.3	23.6 RT	28+11.7	30.0 RT	28+60.6	30.0 RT	47.1	

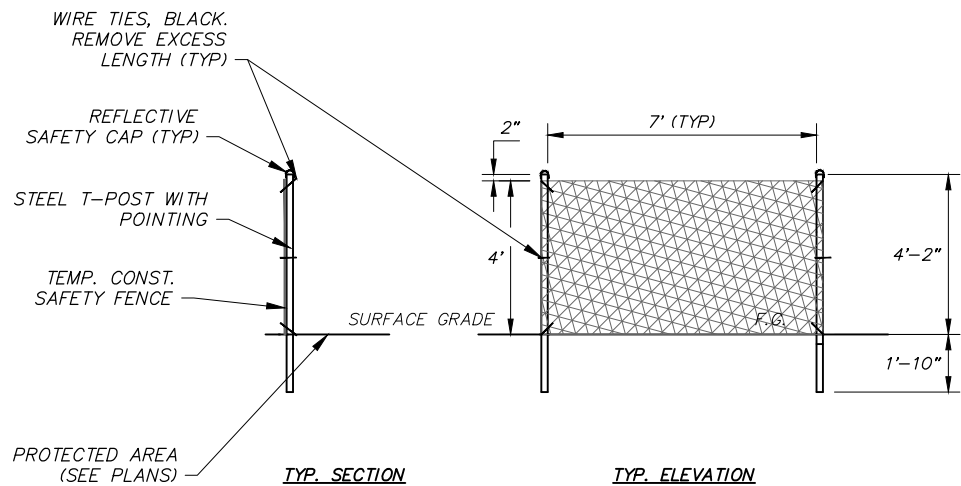
REMOVE FENCE						⑦
SHEET	APPX BEGIN STATION	APPX BEGIN OFFSET (FT)	APPX END STATION	APPX END OFFSET (FT)	LENGTH (FT)	REMARKS
B1	40+88.6	20.6 LT	40+88.2	30.0 LT	9.4	WOOD
B1	41+01.4	24.1 RT	41+01.3	30.0 RT	5.9	WOOD
B1	41+41.3	24.3 RT	41+41.0	30.0 RT	5.8	WOOD
B1	41+95.9	27.9 RT	41+95.7	30.0 RT	2.1	WOOD
B3	45+65.1	22.2 LT	45+65.2	30.0 LT	7.8	WOOD
B4	52+79.0	28.3 RT	52+78.9	30.0 RT	1.7	WOOD
B6	26+38.6	29.2 LT	26+38.8	31.9 RT	2.8	WOOD
B6	26+57.8	22.0 RT	26+58.3	30.0 RT	8.0	WOOD
B6	27+29.0	22.9 RT	27+27.0	30.0 RT	7.3	WOOD
B6	28+11.0	23.0 RT	28+11.7	30.0 RT	7.1	WOOD

RECORD DRAWING 1. DATA PROVIDED BY: _____ TITLE: _____ THIS WILL SERVE TO CERTIFY THAT THESE RECORD DRAWINGS ARE A TRUE AND ACCURATE REPRESENTATION OF THE PROJECT AS CONSTRUCTED. CONTRACTOR: _____ TITLE: _____ DATE: _____ BY: _____		<table border="1"> <tr> <th>DATA</th> <th>DRAWN BY</th> <th>CHECKED BY</th> <th colspan="8"></th> </tr> <tr> <td>BASE</td> <td>TS</td> <td>MJ</td> <td colspan="8"></td> </tr> <tr> <td>TOPOGRAPHY</td> <td>TS</td> <td>MJ</td> <td colspan="8"></td> </tr> <tr> <td>PROFILE</td> <td>RB</td> <td>JK</td> <td colspan="8"></td> </tr> <tr> <td>STORM SEWER</td> <td>JH</td> <td>JK</td> <td colspan="2">DESIGN CRW Books 147, 148, & 151</td> <td>BM NO.</td> <td>LOCATION</td> <td>ELEV.</td> <td>REV</td> <td>DATE</td> <td>DESCRIPTION</td> <td>BY</td> </tr> <tr> <td>WATER/SANITARY SEWER</td> <td>MV</td> <td>JK</td> <td colspan="2"></td> <td>GAAB 66</td> <td>See page D-24 of the MOA Benchmark Book</td> <td>238.10</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>GAS</td> <td>MV</td> <td>JK</td> <td colspan="2">STAKING</td> <td>GAAB 96</td> <td>See page D-26 of the MOA Benchmark Book</td> <td>313.63</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>TELEPHONE</td> <td>MV</td> <td>JK</td> <td colspan="2"></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>ELECTRIC</td> <td>TK</td> <td>BM</td> <td colspan="2"></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>DESIGN</td> <td>RB</td> <td>JK</td> <td colspan="2">ASBUILT</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>QUANTITIES</td> <td>RB</td> <td>JK</td> <td colspan="2">CONTRACTOR</td> <td colspan="7">BASIS OF THIS DATUM GAAB 1972 ADJUST</td> </tr> <tr> <td>PRELIMINARY/FINAL</td> <td>RB</td> <td>JK</td> <td colspan="2">INSPECTOR</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>MUNICIPAL/STATE</td> <td>RB</td> <td>JK</td> <td colspan="2"></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td colspan="3">PLAN CHECK</td> <td colspan="3">CONSTRUCTION RECORD</td> <td colspan="3">VERTICAL DATUM</td> <td colspan="3">REVISIONS</td> </tr> </table>										DATA	DRAWN BY	CHECKED BY									BASE	TS	MJ									TOPOGRAPHY	TS	MJ									PROFILE	RB	JK									STORM SEWER	JH	JK	DESIGN CRW Books 147, 148, & 151		BM NO.	LOCATION	ELEV.	REV	DATE	DESCRIPTION	BY	WATER/SANITARY SEWER	MV	JK			GAAB 66	See page D-24 of the MOA Benchmark Book	238.10					GAS	MV	JK	STAKING		GAAB 96	See page D-26 of the MOA Benchmark Book	313.63					TELEPHONE	MV	JK										ELECTRIC	TK	BM										DESIGN	RB	JK	ASBUILT									QUANTITIES	RB	JK	CONTRACTOR		BASIS OF THIS DATUM GAAB 1972 ADJUST							PRELIMINARY/FINAL	RB	JK	INSPECTOR									MUNICIPAL/STATE	RB	JK										PLAN CHECK			CONSTRUCTION RECORD			VERTICAL DATUM			REVISIONS			 3940 ARCTIC BLVD, SUITE 300 ANCHORAGE, ALASKA 99503 PHONE: (907) 562-3252 JACCL882-AK						PROJECT MANAGEMENT AND ENGINEERING DEPARTMENT 14-50 IMAGE DRIVE / REFLECTION DRIVE AREA ROAD RECONSTRUCTION - PHASE 2 ALL DEMOLITION SUMMARY SCALE HOR. N/A VER. N/A GRID SW1638, SW1738 DATE SEPT 2019 STATUS 65% SHEET B9 of B11			
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70.11		STANDARD SIGN					8
SHEET	APPX STATION	APPX OFFSET (FT)	SIGN TYPE	LEGEND	SIGN POST	REMARKS	
B2	43+53	29.0 LT	R1-1	STOP	PERFORATED STEEL TUBE		
B2	44+01	23.2 RT	D3-1D	IMAGE DR	PERFORATED STEEL TUBE		
			D3-1D	MIRAGE CIR			
			R1-1	STOP			
B2	44+89	21.4 LT	W17-1	SPEED HUMP	STEEL LIGHT POLE		
B2	44+91	21.3 RT	W17-1	SPEED HUMP	PERFORATED STEEL TUBE		
B3	47+71	26.5 LT	D3-1D	IMAGE DR	STEEL LIGHT POLE		
			D3-1D	KEYANN CIR			
			R1-1	STOP			
B4	53+57	28.8 RT	D3-1D	IMAGE DR	STEEL LIGHT POLE		
			D3-1D	IMAGE CIR			
			R1-1	STOP			
B4	54+07	22.5 LT	W17-1	SPEED HUMP	PERFORATED STEEL TUBE		
B4	54+01	13.3 RT	W17-1	SPEED HUMP	PERFORATED STEEL TUBE		
B5	54+56	27.8 LT	D3-1D	IMAGE DR	PERFORATED STEEL TUBE		
			D3-1D	RIDGELAKE CIR			
			R1-1	STOP			
B6	57+16	27.4 RT	D3-1D	REFLECTION DR	STEEL LIGHT POLE		
			D3-1D	DEFIANCE ST			
			D3-1D	REFLECTION DR			
			D3-1D	DEFIANCE ST			
			R1-1	STOP			
B6	28+21	24.8 LT	R2-1	SPEED LIMIT 25	STEEL LIGHT POLE	DEFIANCE STREET	

70.17		RELOCATE CLUSTER MAILBOX UNIT				(10)
EXISTING LOCATION			NEW LOCATION			
SHEET	APPX STATION	APPX OFFSET (FT)	APPX STATION	APPX OFFSET (FT)	REMARKS	
B1	41+87.1	21.7 LT	41+87.1	23.5 LT	IMAGE DRIVE	
B2	62+47.0	18.6 LT	62+47.0	18.5 LT	IMAGE CIRCLE	
B2	62+99.1	18.6 RT	63+00.1	18.5 RT	IMAGE CIRCLE	
B4	52+03.5	23.7 RT	52+03.5	23.8 RT	IMAGE DRIVE	
B4	53+06.6	24.4 RT	53+00.8	23.5 RT	IMAGE DRIVE	
B5	55+11.9	24.2 RT	55+17.2	23.6 RT	IMAGE DRIVE	
B5	55+20.7	24.2 RT	55+17.2	23.6 RT	IMAGE DRIVE	

70.17					
RELOCATE MAILBOX ⑩					
EXISTING LOCATION			NEW LOCATION		
SHEET	APPX STATION	APPX OFFSET (FT)	APPX STATION	APPX OFFSET (FT)	REMARKS
B3	70+59.3	16.6 RT	70+59.3	17.5 RT	
B3	71+21.3	16.1 LT	71+21.3	17.5 LT	PROVIDE 2 MAILBOXES ON ONE POST
B3	71+45.6	16.0 RT	71+45.6	17.5 RT	
B3	71+55.0	16.2 RT	71+55.1	17.3 RT	
B3	71+56.9	15.5 RT	71+57.0	17.2 RT	
B3	71+66.7	15.8 LT	71+66.6	18.4 LT	
B3	72+21.9	33.8 LT	72+21.0	35.0 LT	
B3	72+27.9	37.2 RT	72+27.1	38.8 RT	
B3	72+34.2	40.0 LT	72+33.7	41.5 LT	
B3	72+47.5	42.3 RT	72+47.6	43.5 RT	
B3	72+81.7	24.0 LT	72+82.6	24.6 LT	
B3	72+83.2	22.2 LT	72+84.0	22.6 LT	
B3	72+87.4	12.4 RT	72+88.4	12.7 RT	
B3	72+88.3	10.4 RT	72+89.0	10.6 RT	
B6	25+83.8	24.4 LT	25+83.8	24.0 LT	
B6	26+11.0	23.3 LT	26+11.0	24.0 LT	
B6	26+11.5	24.1 RT	26+11.5	24.0 LT	
B6	26+61.3	47.2 LT	26+60.4	48.0 LT	
B6	26+76.2	64.3 LT	26+75.6	65.9 LT	
B6	26+78.1	64.7 LT	26+77.3	67.1 LT	
B6	26+91.6	70.0 LT	26+91.5	72.5 LT	
B6	27+30.9	38.2 LT	27+33.2	40.2 LT	
B6	27+35.4	31.5 LT	27+37.4	34.0 LT	
B6	27+59.0	22.7 LT	27+59.0	24.0 LT	
B6	28+13.1	22.8 RT	28+13.1	24.0 RT	
B6	28+17.2	22.7 LT	28+17.2	24.0 LT	
B6	28+49.8	22.7 LT	28+49.8	24.0 LT	



TEMPORARY TREE PROTECTION FENCE DETAIL

SCALE: NTS

RECORD DRAWING 1. DATA PROVIDED BY: _____ TITLE: _____ THIS WILL SERVE TO CERTIFY THAT THESE RECORD DRAWINGS ARE A TRUE AND ACCURATE REPRESENTATION OF THE PROJECT AS CONSTRUCTED. CONTRACTOR: _____ TITLE: _____ DATE: _____ 2. DATA TRANSFERRED BY: _____ TITLE: _____ COMPANY: _____ DATE: _____ 3. BASED ON PERIODIC FIELD OBSERVATIONS BY THE ENGINEER (OR AN INDIVIDUAL UNDER HIS/HER DIRECT SUPERVISION), THE CONTRACTOR—PROVIDED DATA APPEARS TO REPRESENT THE PROJECT AS CONSTRUCTED. DATA TRANSFER CHECKED BY: _____ TITLE: _____ COMPANY: _____ DATE: _____ BY: _____		<table border="1"> <tr> <th>DATA</th> <th>DRAWN BY</th> <th>CHECKED BY</th> <th colspan="8"></th> </tr> <tr> <td>BASE</td> <td>TS</td> <td>MJ</td> <td colspan="8"></td> </tr> <tr> <td>TOPOGRAPHY</td> <td>TS</td> <td>MJ</td> <td colspan="8"></td> </tr> <tr> <td>PROFILE</td> <td>RB</td> <td>JK</td> <td colspan="8"></td> </tr> <tr> <td>STORM SEWER</td> <td>JH</td> <td>JK</td> <td colspan="8"></td> </tr> <tr> <td>WATER/SANITARY SEWER</td> <td>MV</td> <td>JK</td> <td colspan="8"></td> </tr> <tr> <td>GAS</td> <td>MV</td> <td>JK</td> <td colspan="8"></td> </tr> <tr> <td>TELEPHONE</td> <td>MV</td> <td>JK</td> <td colspan="8"></td> </tr> <tr> <td>ELECTRIC</td> <td>TK</td> <td>BM</td> <td colspan="8"></td> </tr> <tr> <td>DESIGN</td> <td>RB</td> <td>JK</td> <td colspan="8"></td> </tr> <tr> <td>QUANTITIES</td> <td>RB</td> <td>JK</td> <td colspan="8"></td> </tr> <tr> <td>PRELIMINARY/FINAL</td> <td>RB</td> <td>JK</td> <td colspan="8"></td> </tr> <tr> <td>MUNICIPAL/STATE</td> <td>RB</td> <td>JK</td> <td colspan="8"></td> </tr> </table>										DATA	DRAWN BY	CHECKED BY									BASE	TS	MJ									TOPOGRAPHY	TS	MJ									PROFILE	RB	JK									STORM SEWER	JH	JK									WATER/SANITARY SEWER	MV	JK									GAS	MV	JK									TELEPHONE	MV	JK									ELECTRIC	TK	BM									DESIGN	RB	JK									QUANTITIES	RB	JK									PRELIMINARY/FINAL	RB	JK									MUNICIPAL/STATE	RB	JK									<table border="1"> <tr> <th colspan="3">FIELD BOOKS</th> <th>BM NO.</th> <th>LOCATION</th> <th>ELEV.</th> <th>REV</th> <th>DATE</th> <th>DESCRIPTION</th> <th>BY</th> </tr> <tr> <td colspan="3">DESIGN CRW Books 147, 148, & 151</td> <td>GAAB 66</td> <td>See page D-24 of the MOA Benchmark Book</td> <td>238.10</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td colspan="3"></td> <td>GAAB 96</td> <td>See page D-26 of the MOA Benchmark Book</td> <td>313.83</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td colspan="3">STAKING</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td colspan="3">ASBUILT</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td colspan="3">CONTRACTOR</td> <td colspan="7">BASIS OF THIS DATUM GAAB 1972 ADJUST</td> </tr> <tr> <td colspan="3">INSPECTOR</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>										FIELD BOOKS			BM NO.	LOCATION	ELEV.	REV	DATE	DESCRIPTION	BY	DESIGN CRW Books 147, 148, & 151			GAAB 66	See page D-24 of the MOA Benchmark Book	238.10								GAAB 96	See page D-26 of the MOA Benchmark Book	313.83					STAKING										ASBUILT										CONTRACTOR			BASIS OF THIS DATUM GAAB 1972 ADJUST							INSPECTOR										 CRW ENGINEERING GROUP LLC 3940 ARCTIC BLVD, SUITE 300 ANCHORAGE, ALASKA 99508 PHONE: (907) 562-3252 #AECLE662-AK  STATE OF ALASKA 49 TH STAR JUSTIN T. KEENE CE-11775 REGISTERED PROFESSIONAL ENGINEER 										PROJECT MANAGEMENT AND ENGINEERING DEPARTMENT 14-50 IMAGE DRIVE / REFLECTION DRIVE AREA ROAD RECONSTRUCTION - PHASE 2 ALL DEMOLITION SUMMARY									
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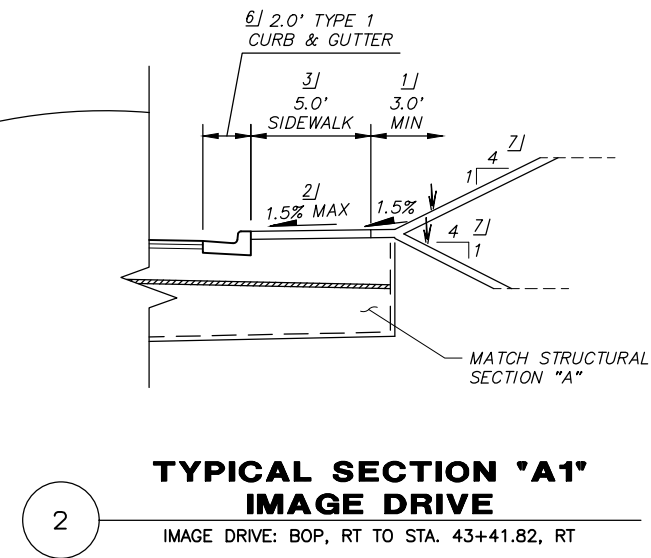


IMAGE DRIVE: BOP TO STA 43+42
STA 55+19 TO EOP
DEFIANCE STREET: STA 28+20 TO EOP

TYPICAL SECTION "B" CROSS SLOPE SUMMARY				
STREET	FROM STA	TO STA	CROSS SLOPE	REMARKS
IMAGE DRIVE	43+42	44+13	VARIES	CROSS SLOPE TRANSITION FROM 2.0% TO 2.5%, SEE INTERSECTION LAYOUT SHEET R6
IMAGE DRIVE	44+13	46+32	2.50%	
IMAGE DRIVE	46+32	46+37	VARIES	CROSS SLOPE TRANSITION FROM 2.5% TO 2.0%,
IMAGE DRIVE	46+37	55+19	2.00%	
REFLECTION DRIVE	24+81	25+77	2.00%	

NOTE: SEE SHEET NOTE 1

SHEET NOTES:

1. THE STATION RANGES ARE APPROXIMATE AND MAY BE MODIFIED IN THE FIELD BY THE ENGINEER.

FOOT NOTES:

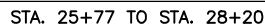
- 1.] PLACE 4" OF TOPSOIL AND SEEDING (SCHEDULE A) ON ALL DISTURBED AREAS.
- 2.] THE MAXIMUM SIDEWALK CROSS SLOPE GRADE IS 2% AT DRIVEWAYS.
- 3.] INCREASE SIDEWALK THICKNESS TO 6" ACROSS ALL DRIVEWAYS & ADD WELDED STEEL WIRE REINFORCEMENT PER THE SPECIFICATIONS.
- 4.] FOR PROPOSED CROSS SLOPES, SEE TYPICAL CROSS SLOPE SUMMARY TABLE THIS SHEET.
- 5.] PRIOR TO PLACEMENT OF FILL, NATIVE MATERIAL SHALL BE SCARIFIED, PROOF-ROLLED AND COMPACTED AS DIRECTED BY ENGINEER. THIS WORK SHALL BE INCIDENTAL TO THE CONTRACT AND NO SEPARATE PAYMENT SHALL BE MADE.
- 6.] TOP AC PAVEMENT SHALL BE 1/8" - 1/4" ABOVE LIP OF CURB, UNLESS OTHERWISE NOTED. SEE DETAIL 3, SHEET C3.
- 7.] THE TYPICAL CUT/FILL SLOPES ARE 4 (HORIZONTAL): 1 (VERTICAL). MODIFY TYPICAL CUT/FILL SLOPES TO A MAXIMUM (STEEPEST) CUT/FILL SLOPE OF 2 (HORIZONTAL): 1 (VERTICAL) AS REQUIRED TO MATCH EXISTING GROUND WITHIN ROW. FILL SLOPES MAY VARY ALONG ROADWAY TO PROVIDE POSITIVE DRAINAGE TOWARD ROADWAY. SEE DETAIL 2, SHEET C3. SEE ROADWAY SHEETS FOR LOCATIONS. THE ENGINEER MAY ADJUST THE TYPICAL SLOPES IN THE FIELD.
- 8.] THE MINIMUM 26" DEPTH OF TYPE II CLASSIFIED FILL & BACKFILL MATERIAL IS MEASURED AT THE EDGE OF EXCAVATION.



IMAGE DRIVE: STA. 43+42 TO STA. 55+19
REFLECTION DRIVE: STA. 24+81 TO STA. 25+78

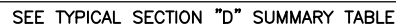
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1. THE STATION RANGES ARE APPROXIMATE AND MAY BE MODIFIED IN THE FIELD BY THE ENGINEER.

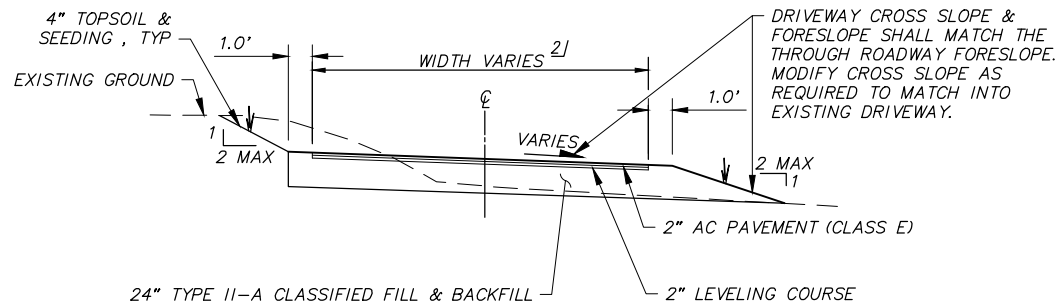


- 1.] PLACE 4" OF TOPSOIL AND SEEDING (SCHEDULE 4) ON ALL DISTURBED AREAS.
- 2.] THE MAXIMUM SIDEWALK CROSS SLOPE GRADE IS 2% AT DRIVEWAYS.
- 3.] INCREASE SIDEWALK THICKNESS TO 6" ACROSS ALL DRIVEWAYS & ADD WELDED STEEL WIRE REINFORCEMENT PER THE SPECIFICATIONS.
- 4.] ROADWAY CROSS SLOPE VARIES AT SOME LOCATIONS ALONG SIDE STREETS. SEE INTERSECTION LAYOUT SHEETS FOR LOCATIONS. MODIFY ROADWAY CROSS SLOPE AS REQUIRED TO MATCH INTO EXISTING ROADWAY OR AS DIRECTED IN THE FIELD BY THE ENGINEER. PROVIDE SMOOTH TRANSITION TO MATCH EXISTING AND TO PROVIDE POSITIVE DRAINAGE TOWARD DRAINAGE STRUCTURES.
- 5.] PRIOR TO PLACEMENT OF FILL, NATIVE MATERIAL SHALL BE SCARIFIED, PROOF-ROLLED AND COMPACTED AS DIRECTED BY ENGINEER. THIS WORK SHALL BE INCIDENTAL TO THE CONTRACT AND NO SEPARATE PAYMENT SHALL BE MADE.
- 6.] TOP AC PAVEMENT SHALL BE 1/8" - 1/4" ABOVE LIP OF CURB, UNLESS OTHERWISE NOTED. SEE DETAIL 3, SHEET C3.
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- 8.] THE MINIMUM 26" DEPTH OF TYPE II CLASSIFIED FILL & BACKFILL MATERIAL IS MEASURED AT THE EDGE OF EXCAVATION.
- 9.] SEE TYPICAL SECTION "D" SUMMARY
- 10.] SEE INTERSECTION/CURB LAYOUT SHEET R12 FOR CROSS SLOPE AND LANE WIDTHS.

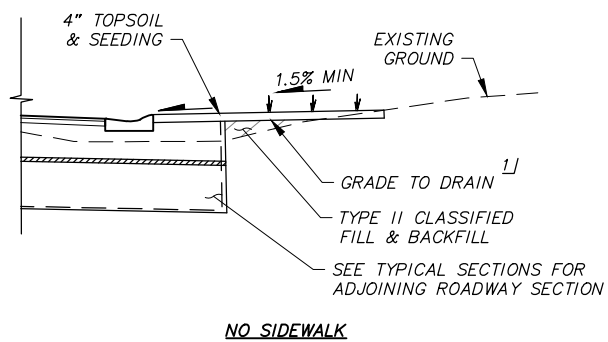
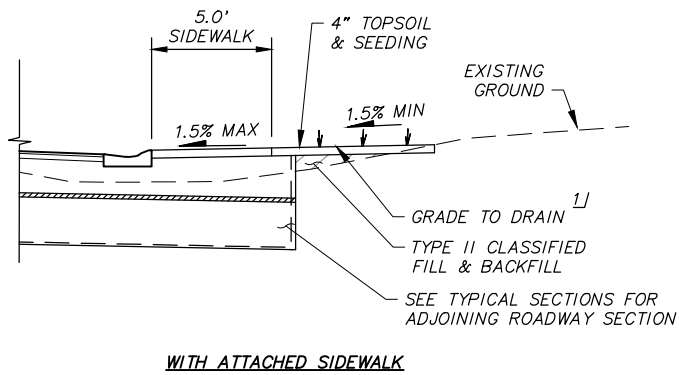
NOTE: SEE SHEET NOTE 1



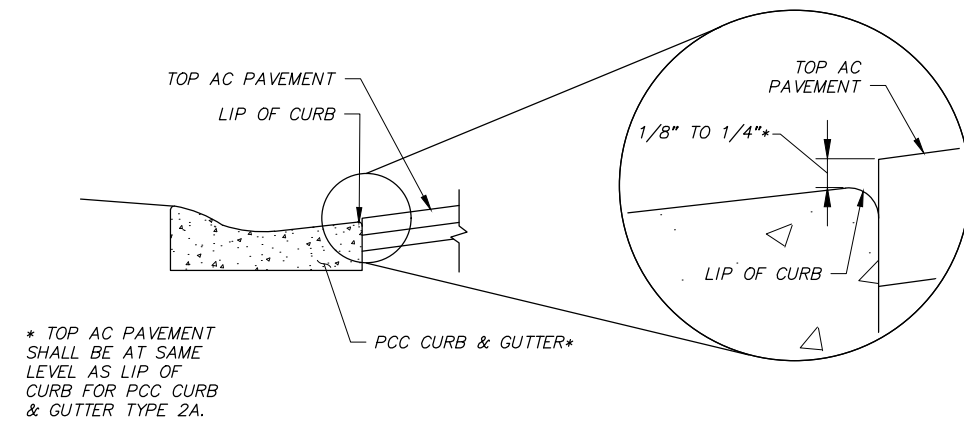
PROJECT MANAGEMENT AND ENGINEERING DEPARTMENT			
14-50	IMAGE DRIVE / REFLECTION DRIVE AREA ROAD RECONSTRUCTION - PHASE 2		SCHED A
TYPICAL SECTIONS			
SCALE	HOR. N/A VER. N/A	GRID SW1636, SW1738 DATE SEPT 2019	C2 of C3 SHEET
		STATUS 65%	



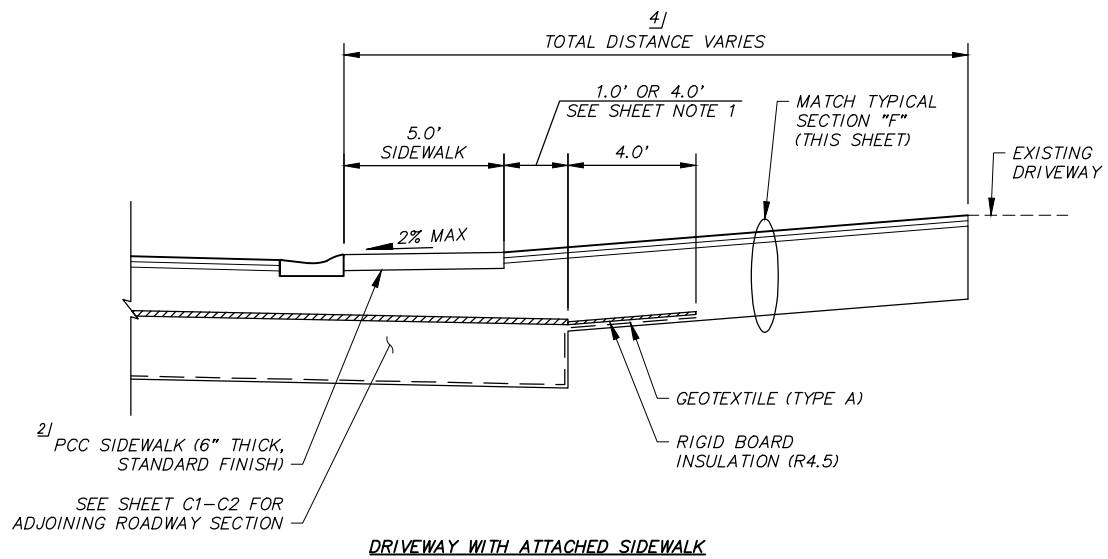
TYPICAL SECTION "F" DRIVEWAY PAVED



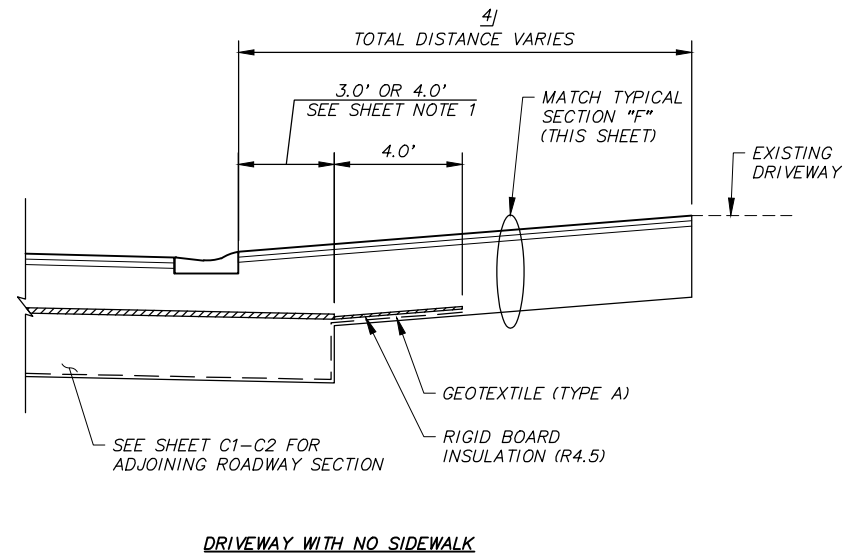
SPECIAL FILL GRADING DETAILS



CURB AND GUTTER & AC PAVEMENT EDGE DETAIL



TYPICAL DRIVEWAY CONNECTION SECTION



FOOT NOTES:

- 1.] PLACE 4" OF TOPSOIL AND SEEDING (SCHEDULE A) ON ALL DISTURBED AREAS.
- 2.] SEE RECONSTRUCT DRIVEWAY SUMMARY TABLE & RECONSTRUCT DRIVEWAY DETAILS FOR DRIVEWAY RECONSTRUCTION INFORMATION.
- 3.] INSTALL INSULATION ADJACENT TO DRIVEWAY AND TRANSITION TO DRIVEWAY SECTION PER DETAIL 3, SHEET C2.
- 4.] SEE RECONSTRUCT DRIVEWAY SUMMARY TABLE & RECONSTRUCTION OF DRIVEWAY DETAILS FOR DRIVEWAY RECONSTRUCTION INFORMATION.

SHEET NOTES:

1. SEE SHEETS C1-C2 FOR ADJOINING ROADWAY SECTION.

RECORD DRAWING	
1. DATA PROVIDED BY: _____	TITLE: _____
THIS WILL SERVE TO CERTIFY THAT THESE RECORD DRAWINGS ARE A TRUE AND ACCURATE REPRESENTATION OF THE PROJECT AS CONSTRUCTED.	
CONTRACTOR: _____	
BY: _____	DATE: _____
2. DATA TRANSFERRED BY: _____	TITLE: _____
COMPANY: _____	DATE: _____
3. BASED ON PERIODIC FIELD OBSERVATIONS BY THE ENGINEER (OR AN INDIVIDUAL UNDER HIS/HER DIRECT SUPERVISION), THE CONTRACTOR-PROVIDED DATA APPEARS TO REPRESENT THE PROJECT AS CONSTRUCTED.	
DATA TRANSFER CHECKED BY: _____	TITLE: _____
COMPANY: _____	DATE: _____
BY: _____	

DATA	DRAWN BY	CHECKED BY
BASE	TS	MJ
TOPOGRAPHY	TS	MJ
PROFILE	RB	JK
STORM SEWER	JH	JK
WATER/SANITARY SEWER	MV	JK
GAS	MV	JK
TELEPHONE	MV	JK
ELECTRIC	TK	BM
DESIGN	RB	JK
QUANTITIES	RB	JK
PRELIMINARY/FINAL	RB	JK
MUNICIPAL/STATE	RB	JK
PLAN CHECK		

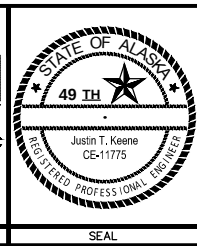
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	GAAB 96	See page D-26 of the MOA Benchmark Book	313.83				
STAKING							
ASBUILT							
CONTRACTOR	BASIS OF THIS DATUM GAAB 1972 ADJUST						
INSPECTOR							
CONSTRUCTION RECORD	VERTICAL DATUM			REVISIONS			



CRW
ENGINEERING GROUP, LLC

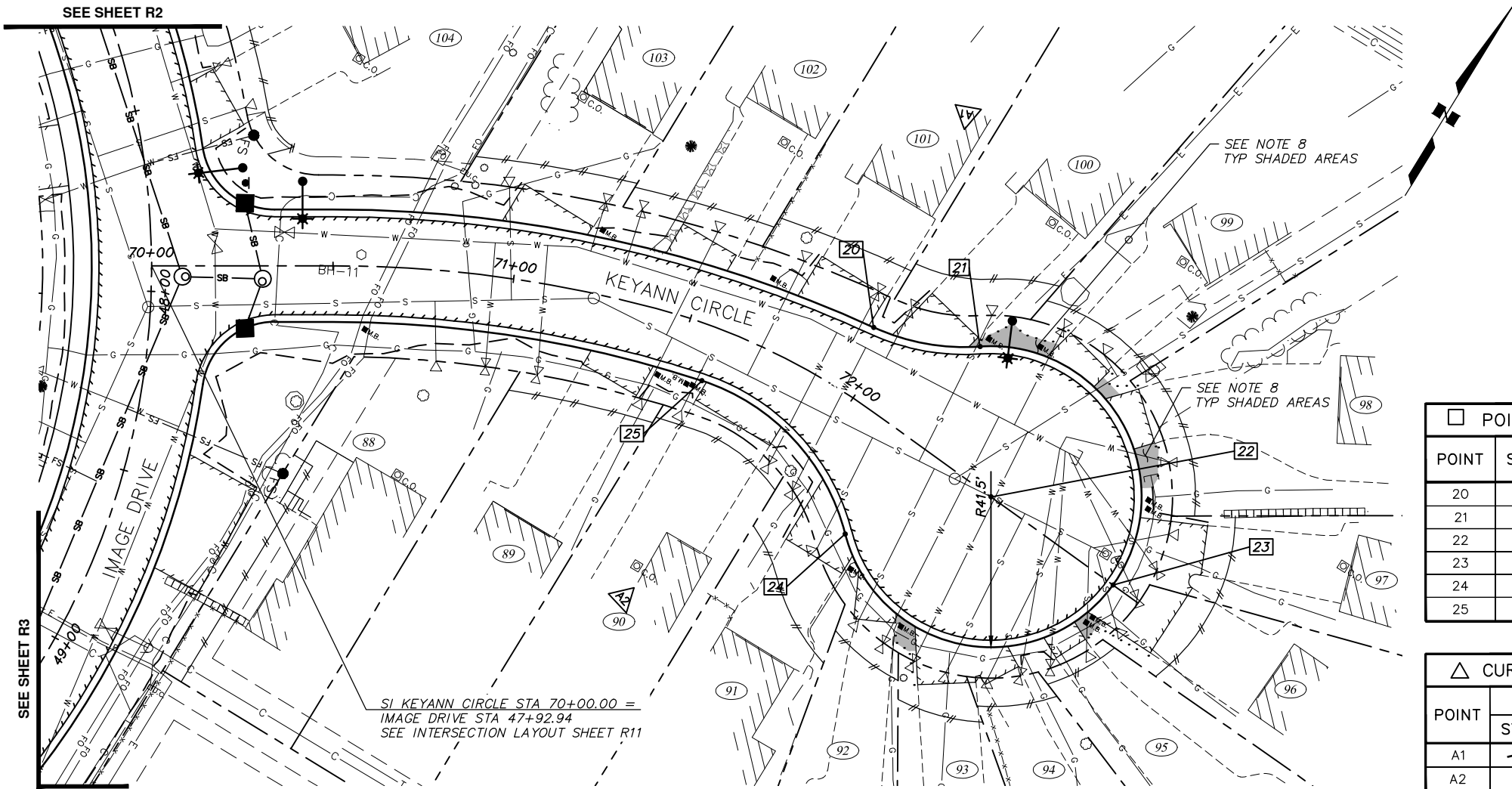
3940 ARCTIC BLVD, SUITE 300
ANCHORAGE, ALASKA 99503
PHONE: (907) 562-3252
#AECL882-AK

CONSULTANT



PROJECT MANAGEMENT AND ENGINEERING DEPARTMENT			
14-50	IMAGE DRIVE / REFLECTION DRIVE AREA ROAD RECONSTRUCTION - PHASE 2		SCHED A
TYPICAL SECTIONS			
SCALE	HOR. N/A VER. N/A	GRID SW1638, SW1738 DATE SEPT 2019 STATUS 65%	C3 of C3

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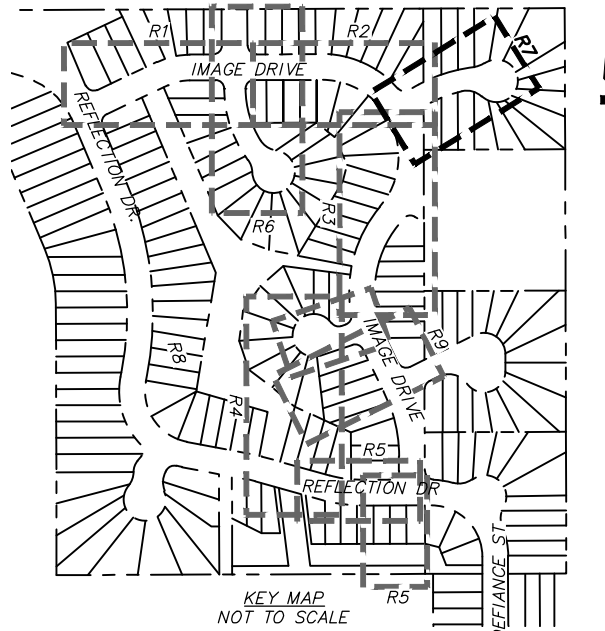
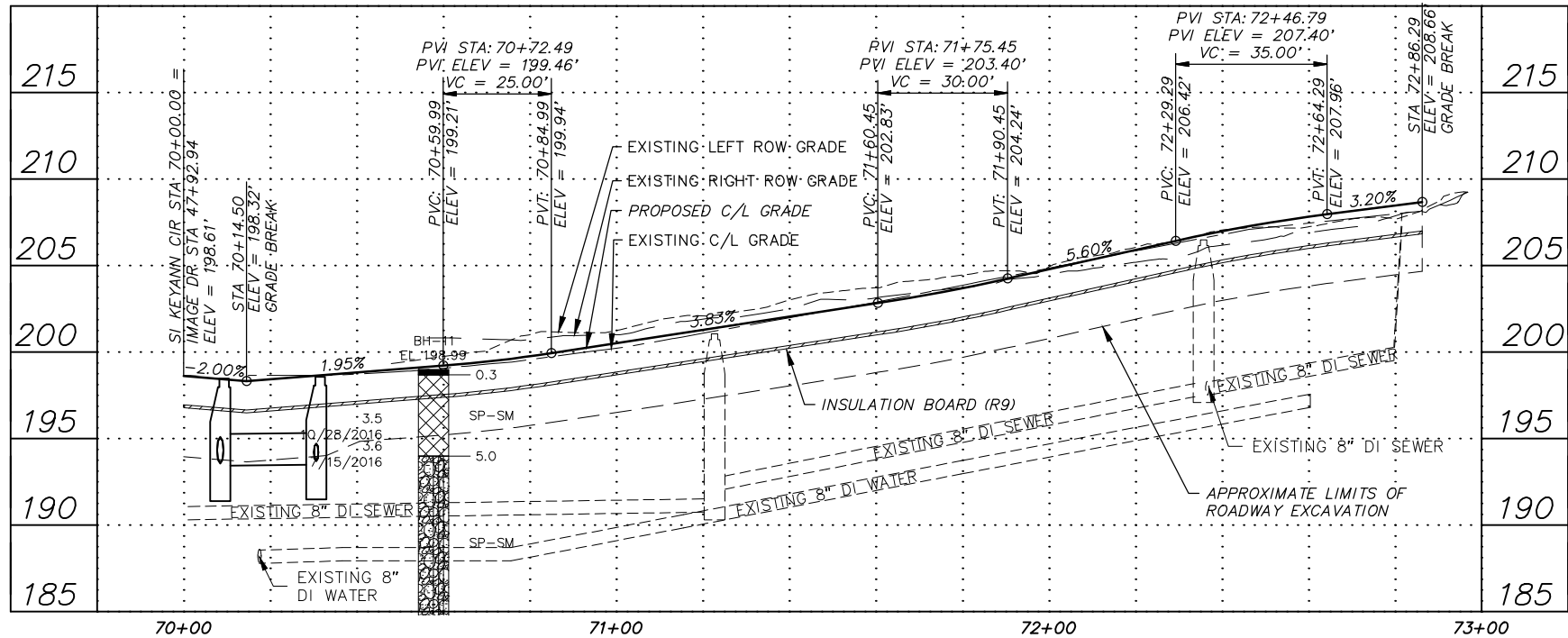
- SEE ROADWAY SUMMARY TABLE (T) SHEETS FOR DETAILED ROADWAY INFORMATION.
- SEE DETAIL (D) SHEETS FOR ROADWAY DETAILS.
- FOR DETAILED SOILS INFORMATION, SEE THE SPECIFICATIONS.
- SEE STORM DRAIN (SD) SHEETS FOR LOCATIONS AND ELEVATIONS OF STORM DRAIN PIPES & STRUCTURES.
- SEE SURVEY CONTROL (V) SHEETS FOR PROJECT CENTERLINE ALIGNMENT DATA.
- SEE ILLUMINATION (I) SHEETS FOR ROADWAY LIGHTING INFORMATION.
- THE DEMOLITION ITEMS REMOVED AS SHOWN ON THE DEMOLITION (B) SHEETS ARE NOT SHOWN FOR CLARITY.
- GRADE AREA TO DRAIN TOWARDS ROADWAY PER DETAIL 2, SHEET C3. NOTIFY ENGINEER IMMEDIATELY IF MIN 1.5% POSITIVE GRADE TOWARD ROADWAY CANNOT BE MAINTAINED. THIS WORK SHALL BE INCIDENTAL TO CONTRACT AND NO SEPARATE PAYMENT SHALL BE MADE.

POINT SUMMARY - KEYANN CIRCLE

POINT	STATION	OFFSET (FT)	TBC ELEV (FT)	CURB TYPE	LIP OF CURB ELEV (FT)	DESCRIPTION
20						
21						
22						
23						
24						
25						

△ CURB RADIUS TABLE

POINT	TBC RADIUS POINT		DESCRIPTION
	STATION	OFFSET (FT)	
A1			KEYANN CIRCLE
A2			KEYANN CIRCLE



RECORD DRAWING

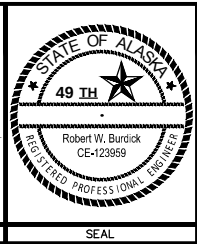
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BY: _____

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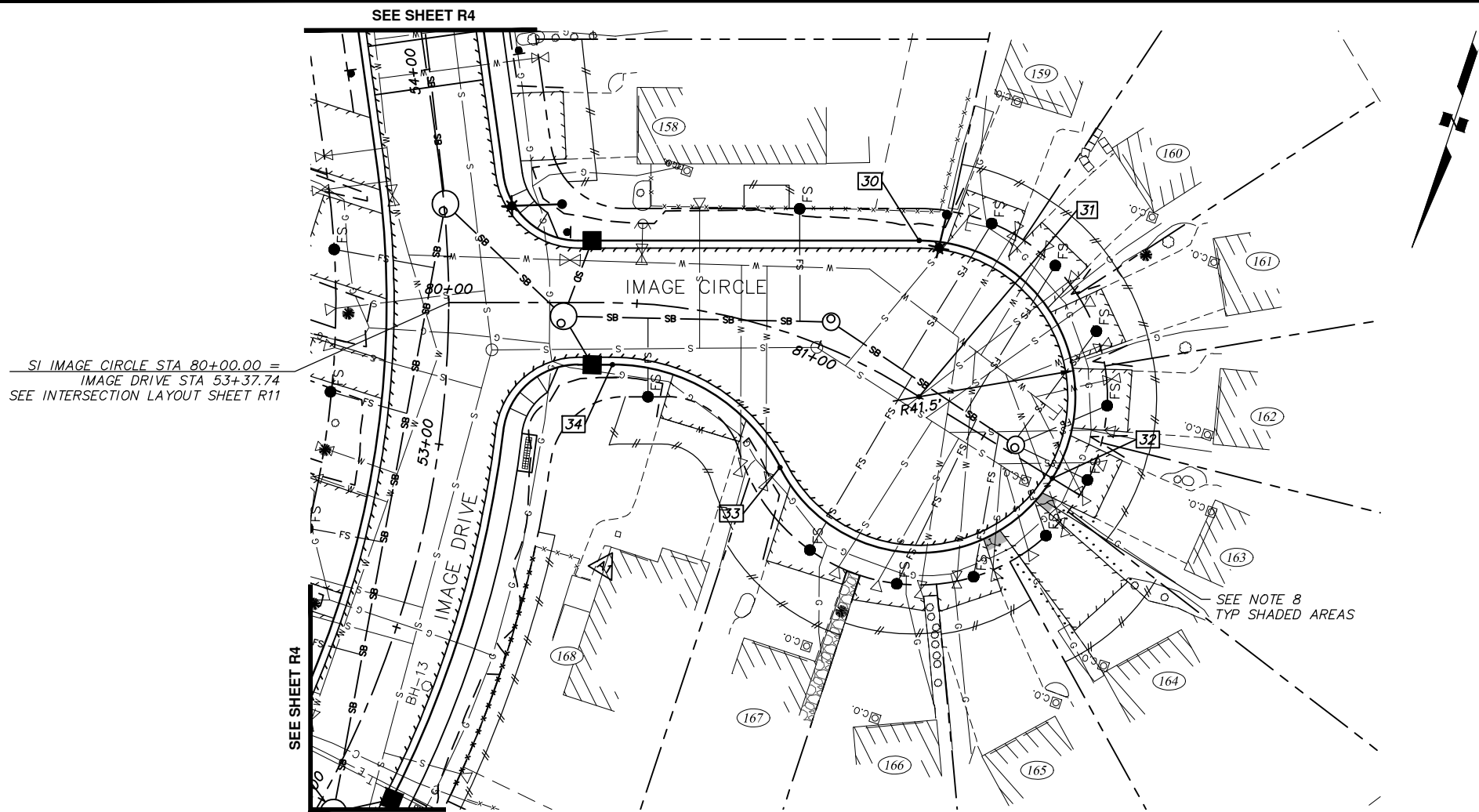
DATA	DRAWN BY	CHECKED BY
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TOPOGRAPHY	TS	MJ
PROFILE	RB	JK
STORM SEWER	JH	JK
WATER/SANITARY SEWER	MV	JK
GAS	MV	JK
TELEPHONE	MV	JK
ELECTRIC	TK	BM
DESIGN	RB	JK
QUANTITIES	RB	JK
PRELIMINARY/FINAL	RB	JK
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FIELD BOOKS		BM NO.	LOCATION	ELEV.	REV	DATE	DESCRIPTION	BY
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		GAAB 96	See page D-26 of the MOA Benchmark Book	313.83				
STAKING								
ASBUILT								
CONTRACTOR								
INSPECTOR								
PLAN CHECK								
CONSTRUCTION RECORD								
VERTICAL DATUM								
REVISIONS								
CONSULTANT								
SEAL								



PROJECT MANAGEMENT AND ENGINEERING DEPARTMENT			
14-50	IMAGE DRIVE / REFLECTION DRIVE AREA ROAD RECONSTRUCTION - PHASE 2	SCHED A	
ROADWAY PLAN AND PROFILE			
KEYANN CIRCLE			
SCALE HOR. 1"=20' VER. 1"=5'	GRID SW1638, SW1738 DATE SEPT 2019	STATUS 65%	SHEET R7 of R15

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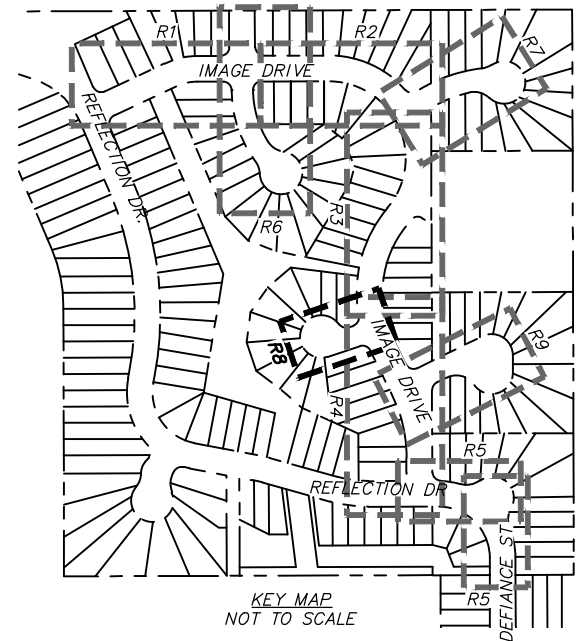
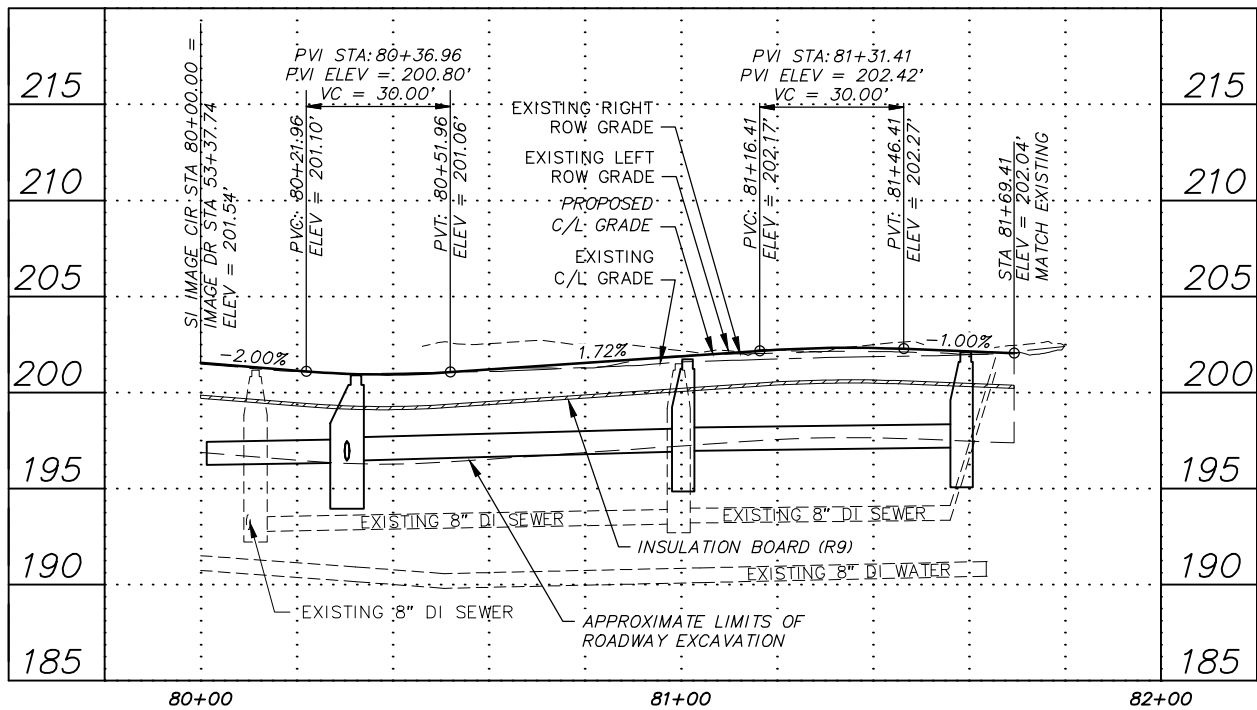


NOTES:

- SEE ROADWAY SUMMARY TABLE (T) SHEETS FOR DETAILED ROADWAY INFORMATION.
- SEE DETAIL (D) SHEETS FOR ROADWAY DETAILS.
- FOR DETAILED SOILS INFORMATION, SEE THE SPECIFICATIONS.
- SEE STORM DRAIN (SD) SHEETS FOR LOCATIONS AND ELEVATIONS OF STORM DRAIN PIPES & STRUCTURES.
- SEE SURVEY CONTROL (V) SHEETS FOR PROJECT CENTERLINE ALIGNMENT DATA.
- SEE ILLUMINATION (I) SHEETS FOR ROADWAY LIGHTING INFORMATION.
- THE DEMOLITION ITEMS REMOVED AS SHOWN ON THE DEMOLITION (B) SHEETS ARE NOT SHOWN FOR CLARITY.
- GRADE AREA TO DRAIN TOWARDS ROADWAY PER DETAIL 2, SHEET C3. NOTIFY ENGINEER IMMEDIATELY IF MIN 1.5% POSITIVE GRADE TOWARD ROADWAY CANNOT BE MAINTAINED. THIS WORK SHALL BE INCIDENTAL TO CONTRACT AND NO SEPARATE PAYMENT SHALL BE MADE.

POINT SUMMARY – IMAGE CIRCLE						
POINT	STATION	OFFSET (FT)	TBC ELEV (FT)	CURB TYPE	LIP OF CURB ELEV (FT)	DESCRIPTION
30						
31						
32						
33						
34						

CURB RADIUS TABLE			
POINT	TBC RADIUS POINT		DESCRIPTION
	STATION	RADIUS (FT)	
A1			IMAGE CIRCLE



RECORD DRAWING

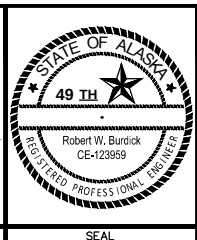
1. DATA PROVIDED BY: _____ TITLE: _____
THIS WILL SERVE TO CERTIFY THAT THESE RECORD DRAWINGS ARE A TRUE AND ACCURATE REPRESENTATION OF THE PROJECT AS CONSTRUCTED.
CONTRACTOR: _____ DATE: _____
BY: _____

2. DATA TRANSFERRED BY: _____ TITLE: _____
COMPANY: _____ DATE: _____

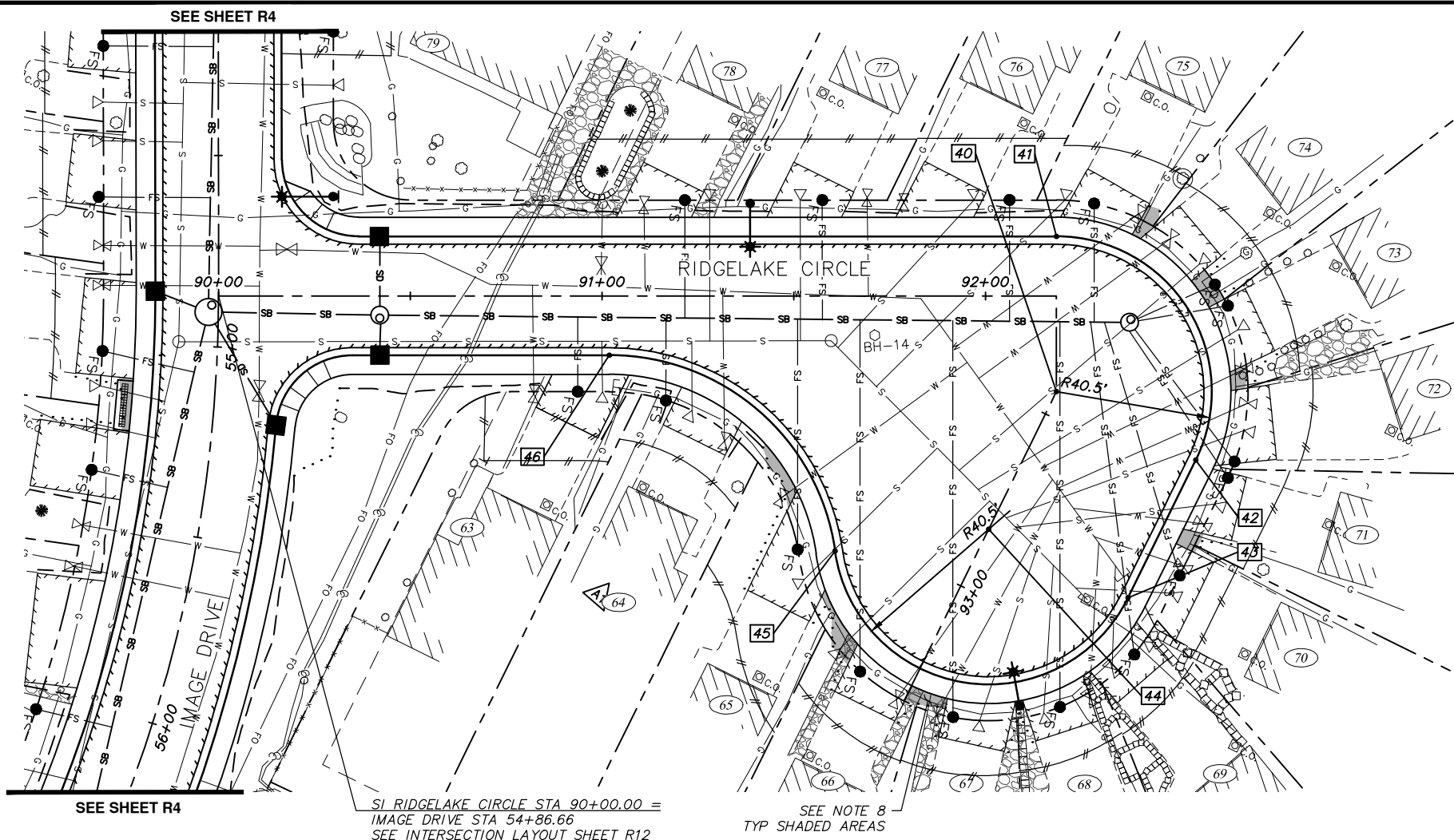
3. BASED ON PERIODIC FIELD OBSERVATIONS BY THE ENGINEER (OR AN INDIVIDUAL UNDER HIS/HER DIRECT SUPERVISION), THE CONTRACTOR-PROVIDED DATA APPEARS TO REPRESENT THE PROJECT AS CONSTRUCTED.
DATA TRANSFER CHECKED BY: _____ TITLE: _____
COMPANY: _____ DATE: _____
BY: _____

DATA	DRAWN BY	CHECKED BY
BASE	TS	MJ
TOPOGRAPHY	TS	MJ
PROFILE	RB	JK
STORM SEWER	JH	JK
WATER/SANITARY SEWER	MV	JK
GAS	MV	JK
TELEPHONE	MV	JK
ELECTRIC	TK	BM
DESIGN	RB	JK
QUANTITIES	RB	JK
PRELIMINARY/FINAL	RB	JK
MUNICIPAL/STATE	RB	JK

FIELD BOOKS		BM NO.	LOCATION	ELEV.	REV	DATE	DESCRIPTION	BY
DESIGN CRW Books 147, 148, & 151		GAAB 66	See page D-24 of the MOA Benchmark Book	238.10				
STAKING		GAAB 96	See page D-26 of the MOA Benchmark Book	313.83				
ASBUILT								
CONTRACTOR								
INSPECTOR								
PLAN CHECK								
CONSTRUCTION RECORD								
VERTICAL DATUM								
REVISIONS								



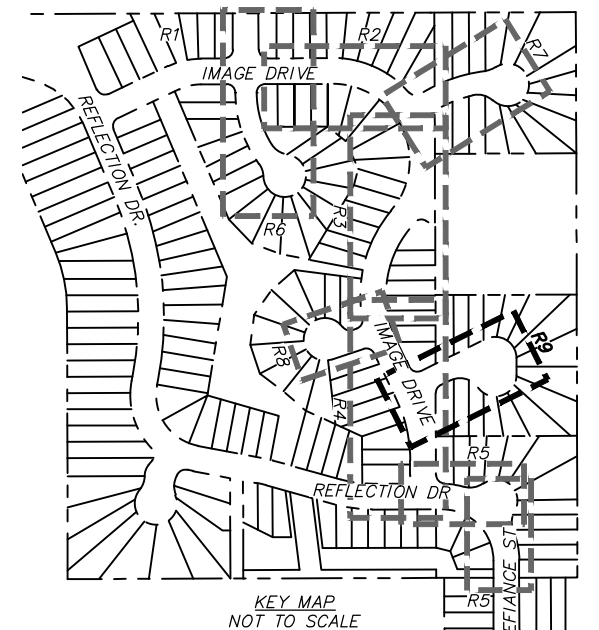
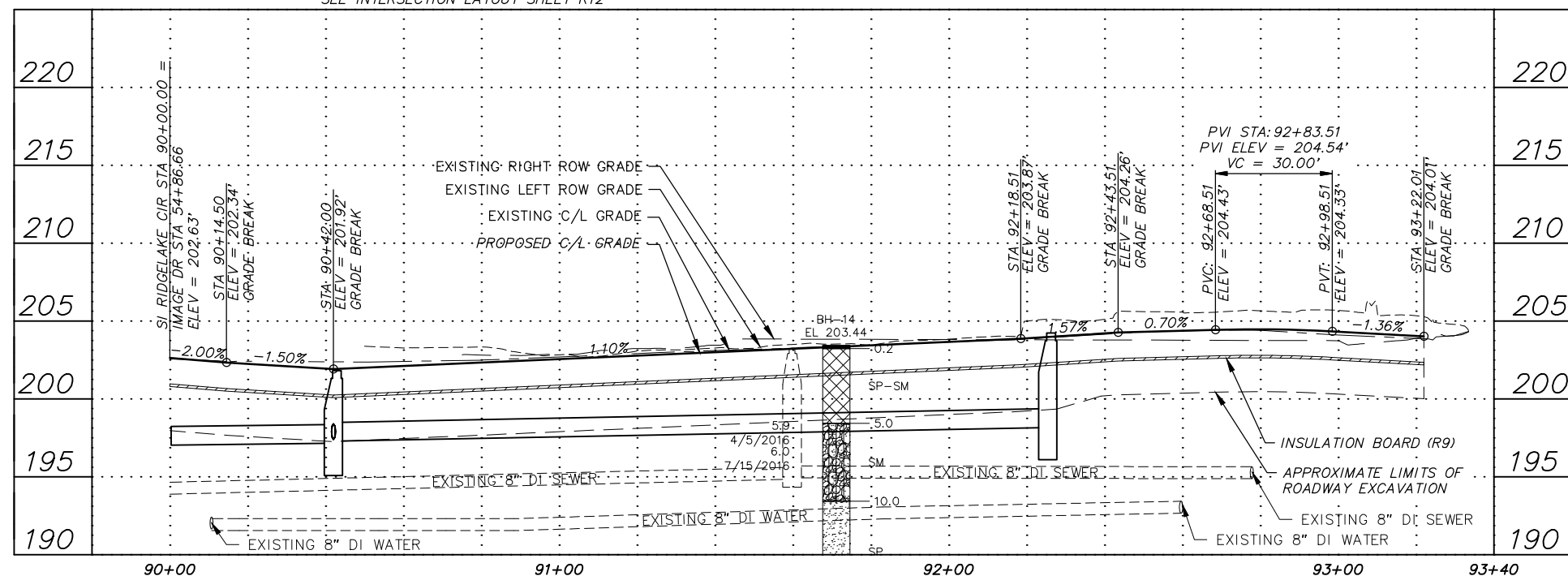
PROJECT MANAGEMENT AND ENGINEERING DEPARTMENT			
14-50	IMAGE DRIVE / REFLECTION DRIVE AREA ROAD RECONSTRUCTION – PHASE 2		SCHED A
ROADWAY PLAN AND PROFILE			
IMAGE CIRCLE			
SCALE	HOR. 1"=20' VER. 1"=5'	GRID SW1638, SW1738	R8 of R15
		DATE SEPT 2019	
		SHEET	



- NOTES:**
1. SEE ROADWAY SUMMARY TABLE (T) SHEETS FOR DETAILED ROADWAY INFORMATION.
 2. SEE DETAIL (D) SHEETS FOR ROADWAY DETAILS.
 3. FOR DETAILED SOILS INFORMATION, SEE THE SPECIFICATIONS.
 4. SEE STORM DRAIN (SD) SHEETS FOR LOCATIONS AND ELEVATIONS OF STORM DRAIN PIPES & STRUCTURES.
 5. SEE SURVEY CONTROL (V) SHEETS FOR PROJECT CENTERLINE ALIGNMENT DATA.
 6. SEE ILLUMINATION (I) SHEETS FOR ROADWAY LIGHTING INFORMATION.
 7. THE DEMOLITION ITEMS REMOVED AS SHOWN ON THE DEMOLITION (B) SHEETS ARE NOT SHOWN FOR CLARITY.
 8. GRADE AREA TO DRAIN TOWARDS ROADWAY PER DETAIL 2, SHEET C3. NOTIFY ENGINEER IMMEDIATELY IF MIN 1.5% POSITIVE GRADE TOWARD ROADWAY CANNOT BE MAINTAINED. THIS WORK SHALL BE INCIDENTAL TO CONTRACT AND NO SEPARATE PAYMENT SHALL BE MADE.

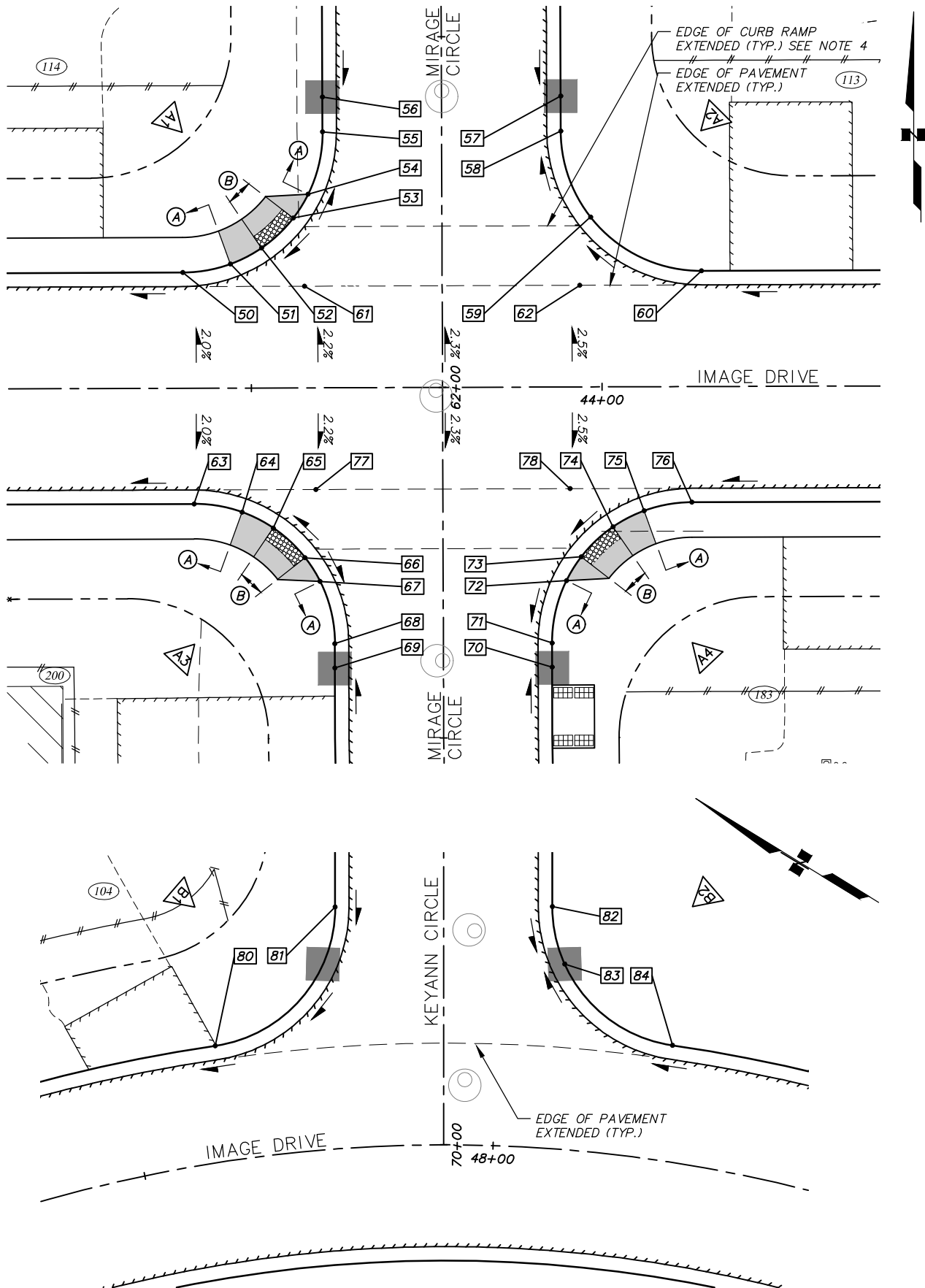
☐ POINT SUMMARY – RIDGELAKE CIRCLE						
POINT	STATION	OFFSET (FT)	TBC ELEV (FT)	CURB TYPE	LIP OF CURB ELEV (FT)	DESCRIPTION
40						
41						
42						
43						
44						
45						
46						

△ CURB RADIUS TABLE			
POINT	TBC RADIUS POINT		DESCRIPTION
	STATION	RADIUS (FT)	
A1			RIDGLAKE CIRCLE



RECORD DRAWING 1. DATA PROVIDED BY: _____ TITLE: _____ THIS WILL SERVE TO CERTIFY THAT THESE RECORD DRAWINGS ARE A TRUE AND ACCURATE REPRESENTATION OF THE PROJECT AS CONSTRUCTED. CONTRACTOR: _____ BY: _____ TITLE: _____ DATE: _____ 2. DATA TRANSFERRED BY: _____ TITLE: _____ COMPANY: _____ DATE: _____ 3. BASED ON PERIODIC FIELD OBSERVATIONS BY THE ENGINEER (OR AN INDIVIDUAL UNDER HIS/HER DIRECT SUPERVISION), THE CONTRACTOR—PROVIDED DATA APPEARS TO REPRESENT THE PROJECT AS CONSTRUCTED. DATA TRANSFER CHECKED BY: _____ TITLE: _____ COMPANY: _____ DATE: _____ BY: _____			<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th style="width:15%;">DATA</th> <th style="width:10%;">DRAWN BY</th> <th style="width:10%;">CHECKED BY</th> <th colspan="6" style="text-align: center;"> GRAPHIC SCALE </th> </tr> <tr> <td>BASE</td> <td>TS</td> <td>MJ</td> <td colspan="7"></td> </tr> <tr> <td>TOPOGRAPHY</td> <td>TS</td> <td>MJ</td> <td colspan="7"></td> </tr> <tr> <td>PROFILE</td> <td>RB</td> <td>JK</td> <td colspan="7"></td> </tr> <tr> <td>STORM SEWER</td> <td>JH</td> <td>JK</td> <td colspan="7"></td> </tr> <tr> <td>WATER/SANITARY SEWER</td> <td>MV</td> <td>JK</td> <td colspan="7"></td> </tr> <tr> <td>GAS</td> <td>MV</td> <td>JK</td> <td colspan="7"></td> </tr> <tr> <td>TELEPHONE</td> <td>MV</td> <td>JK</td> <td colspan="7"></td> </tr> <tr> <td>ELECTRIC</td> <td>TK</td> <td>EM</td> <td colspan="7"></td> </tr> <tr> <td>DESIGN</td> <td>RB</td> <td>JK</td> <td colspan="7"></td> </tr> <tr> <td>QUANTITIES</td> <td>RB</td> <td>JK</td> <td colspan="7"></td> </tr> <tr> <td>PRELIMINARY/FINAL</td> <td>RB</td> <td>JK</td> <td colspan="7"></td> </tr> <tr> <td>MUNICIPAL/STATE</td> <td>RB</td> <td>JK</td> <td colspan="7"></td> </tr> </table> <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th style="width:25%;">FIELD BOOKS</th> <th style="width:10%;">BM NO.</th> <th style="width:20%;">LOCATION</th> <th style="width:10%;">ELEV.</th> <th style="width:5%;">REV</th> <th style="width:10%;">DATE</th> <th style="width:20%;">DESCRIPTION</th> <th style="width:10%;">BY</th> </tr> <tr> <td>DESIGN CRW Books 147, 148, & 151</td> <td>GAAB 66</td> <td>See page D-24 of the MOA Benchmark Book</td> <td>238.10</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td>GAAB 96</td> <td>See page D-26 of the MOA Benchmark Book</td> <td>313.83</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>STAKING</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>ASBUILT</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>CONTRACTOR</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>INSPECTOR</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td colspan="8" style="text-align: center;">BASIS OF THIS DATUM GAAB 1972 ADJUST</td> </tr> </table> <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th style="width:25%;">PLAN CHECK</th> <th style="width:25%;">CONSTRUCTION RECORD</th> <th style="width:25%;">VERTICAL DATUM</th> <th style="width:25%;">REVISIONS</th> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </table>										DATA	DRAWN BY	CHECKED BY	GRAPHIC SCALE						BASE	TS	MJ								TOPOGRAPHY	TS	MJ								PROFILE	RB	JK								STORM SEWER	JH	JK								WATER/SANITARY SEWER	MV	JK								GAS	MV	JK								TELEPHONE	MV	JK								ELECTRIC	TK	EM								DESIGN	RB	JK								QUANTITIES	RB	JK								PRELIMINARY/FINAL	RB	JK								MUNICIPAL/STATE	RB	JK								FIELD BOOKS	BM NO.	LOCATION	ELEV.	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File: I:\Data\10133.00 Image Reflection Area Reconstruction\00 CADD\01 Working Set\01 Civil\Phase 2\10133.00 Intersection Layout - Phase 2.dwg



RECORD DRAWING

1. DATA PROVIDED BY: _____ TITLE: _____

THIS WILL SERVE TO CERTIFY THAT THESE RECORD DRAWINGS ARE A TRUE AND ACCURATE REPRESENTATION OF THE PROJECT AS CONSTRUCTED.

CONTRACTOR: _____

BY: _____ TITLE: _____ DATE: _____

2. DATA TRANSFERRED BY: _____ TITLE: _____

COMPANY: _____ DATE: _____

3. BASED ON PERIODIC FIELD OBSERVATIONS BY THE ENGINEER (OR AN INDIVIDUAL UNDER HIS/HER DIRECT SUPERVISION), THE CONTRACTOR-PROVIDED DATA APPEARS TO REPRESENT THE PROJECT AS CONSTRUCTED.

DATA TRANSFER CHECKED BY: _____ TITLE: _____

COMPANY: _____ DATE: _____

BY: _____

DATA	DRAWN BY	CHECKED BY
BASE	TS	MJ
TOPOGRAPHY	TS	MJ
PROFILE	RB	JK
STORM SEWER	JH	JK
WATER/SANITARY SEWER	MV	JK
GAS	MV	JK
TELEPHONE	MV	JK
ELECTRIC	TK	BM
DESIGN	RB	JK
QUANTITIES	RB	JK
PRELIMINARY/FINAL	RB	JK
MUNICIPAL/STATE	RB	JK

FIELD BOOKS	BM NO.	LOCATION	ELEV.	REV	DATE	DESCRIPTION	BY
DESIGN CRW Books 147, 148, & 151	GAAB 66	See page D-24 of the MOA Benchmark Book	238.10				
	GAAB 96	See page D-26 of the MOA Benchmark Book	313.83				
STAKING							
ASBUILT							
CONTRACTOR							
INSPECTOR							
BASIS OF THIS DATUM GAAB 1972 ADJUST							

GRAPHIC SCALE: 20 10 0 10 20



SEAL



PROJECT MANAGEMENT AND ENGINEERING DEPARTMENT

14-50 IMAGE DRIVE / REFLECTION DRIVE AREA ROAD RECONSTRUCTION - PHASE 2 SCHED A

INTERSECTION LAYOUT

MIRAGE CIRCLE & KEYANN CIRCLE

SCALE HOR. 1"=10' VER. N/A GRID SW1638, SW1738 DATE SEPT 2019 STATUS 65% SHEET R10 of R15

POINT SUMMARY - REFLECTION DRIVE AT MIRAGE CIRCLE									
POINT	STATION	OFFSET (FT)	TBC ELEV (FT)	CURB TYPE	LIP OF CURB ELEV (FT)	TOP AC ELEV (FT)	TO NEXT POINT*		DESCRIPTION
							LENGTH (FT)	SLOPE (%)	
50									
51									
52									
53									
54									
55									
56									
57									
58									
59									
60									
61									
62									
63									
64									
65									
66									
67									
68									
69									
70									
71									
72									
73									
74									
75									
76									
77									
78									

* LENGTH & SLOPE TO NEXT POINT IS ALONG LIP OF CURB

POINT SUMMARY - IMAGE DRIVE AT KEYANN CIRCLE									
POINT	STATION	OFFSET (FT)	TBC ELEV (FT)	CURB TYPE	LIP OF CURB ELEV (FT)	TOP AC ELEV (FT)	TO NEXT POINT*		DESCRIPTION
							LENGTH (FT)	SLOPE (%)	
80									
81									
82									
83									
84									

* LENGTH & SLOPE TO NEXT POINT IS ALONG LIP OF CURB

CURB RADIUS TABLE			
POINT	TBC RADIUS POINT		DESCRIPTION
	STATION	OFFSET (FT)	
A1			MIRAGE CIRCLE
A2			MIRAGE CIRCLE
A3			MIRAGE CIRCLE
A4			MIRAGE CIRCLE
B1			KEYANN CIRCLE
B2			KEYANN CIRCLE

NOTES

- SEE ROADWAY (R) SHEETS FOR ROADWAY & SIDEWALK LOCATIONS.
- SEE STORM DRAIN (SD) SHEETS FOR LOCATIONS & ELEVATIONS OF SD PIPES & STRUCTURES.
- SEE SIGNING & STRIPING (S) SHEETS FOR LOCATIONS & TYPES OF SIGNS & TRAFFIC MARKINGS.
- THE MAXIMUM CROSS-SLOPE BETWEEN EDGE OF PAVEMENT EXTENDED AND EDGE OF CURB RAMP EXTENDED SHALL BE 2%. IF A 2% CROSS-SLOPE CANNOT BE MAINTAINED NOTIFY ENGINEER PRIOR TO INSTALLATION OF AC PAVEMENT.
- PROVIDE CONSTANT FLOWLINE BETWEEN CHANGE IN CURB TYPE.
- SEE DETAIL (D) SHEETS FOR CURB RAMP DETAILS.
- LIP OF CURB IS FRONT OF CURB AND GUTTER AT EDGE OF PAVEMENT.

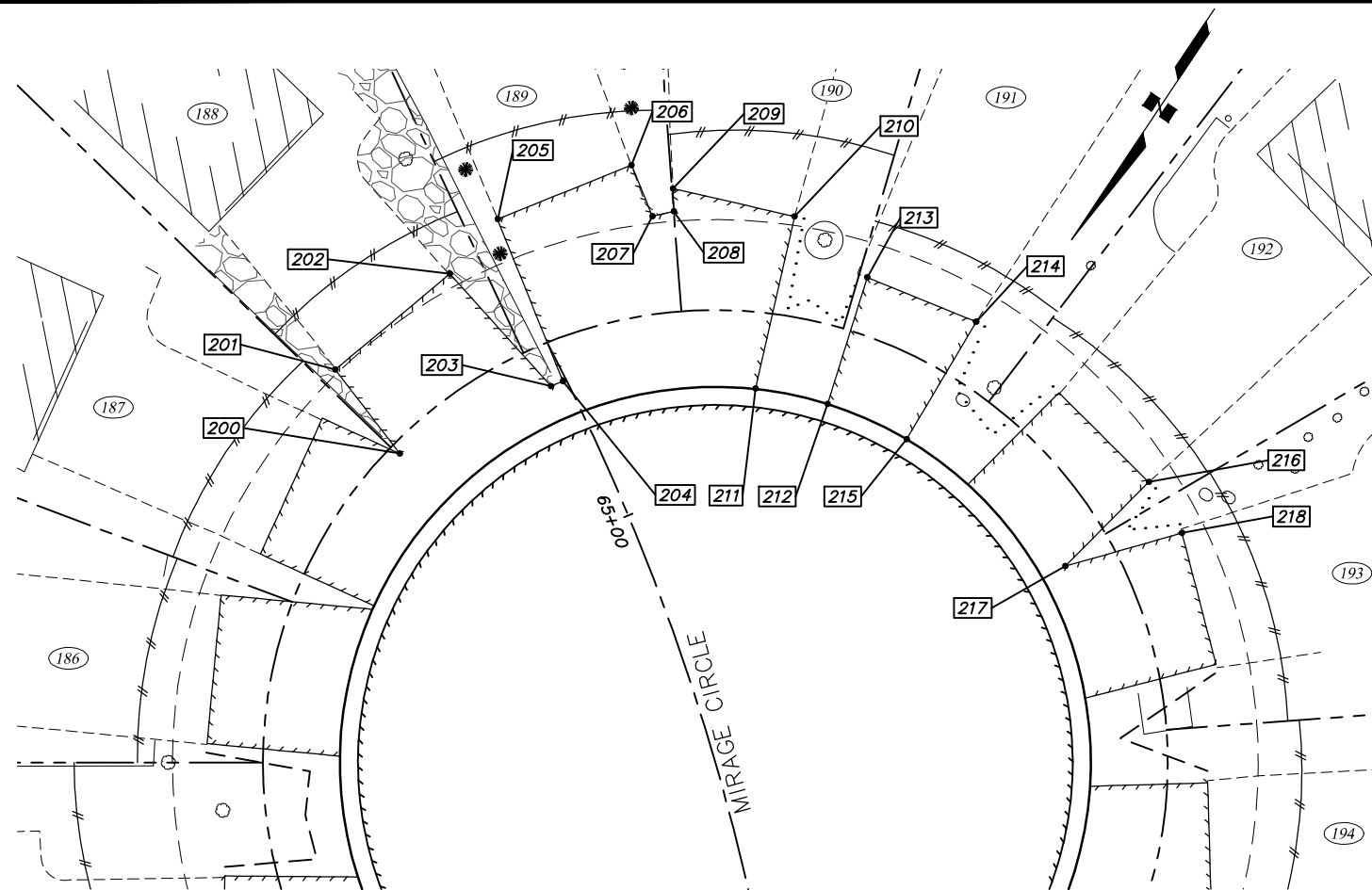
LEGEND

- APPROXIMATE DIRECTION OF DRAINAGE FLOWS
- DETECTABLE WARNING PANEL
- PCC CURB RAMP

DESIGNATION

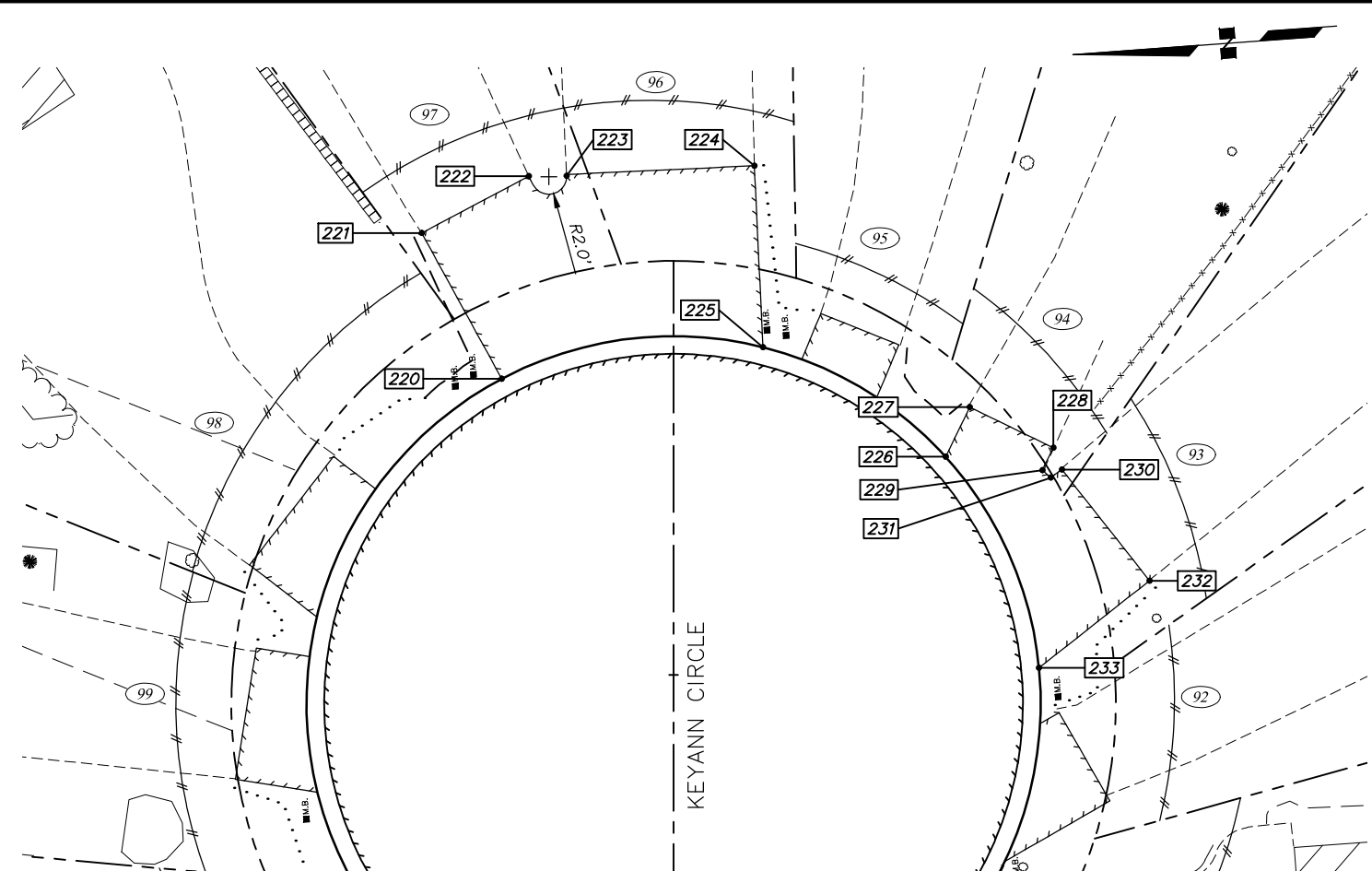
- (A) TYPE 2 CURB
- (B) TYPE 2A CURB

CURB TYPE



PARCEL 188-193 DRIVEWAY RECONSTRUCTION PLAN

POINT SUMMARY – PARCEL 188–193				
POINT	STATION	OFFSET (FT)	ELEV (FT)	DESCRIPTION
200				
201				
202				
203				
204				
205				
206				
207				
208				
209				
210				
211				
212				
213				
214				
215				
216				
217				



PARCEL 93-97 DRIVEWAY RECONSTRUCTION PLAN

POINT SUMMARY – PARCEL 93–96				
POINT	STATION	OFFSET (FT)	ELEV (FT)	DESCRIPTION
220				
221				
222				
223				
224				
225				
226				
227				
228				
229				
230				
231				
232				
233				

RECORD DRAWING

1. DATA PROVIDED BY: _____ TITLE: _____

THIS WILL SERVE TO CERTIFY THAT THESE RECORD DRAWINGS ARE A TRUE AND ACCURATE REPRESENTATION OF THE PROJECT AS CONSTRUCTED.

CONTRACTOR: _____

BY: _____ TITLE: _____ DATE: _____

2. DATA TRANSFERRED BY: _____ TITLE: _____

COMPANY: _____ DATE: _____

3. BASED ON PERIODIC FIELD OBSERVATIONS BY THE ENGINEER (OR AN INDIVIDUAL UNDER HIS/HER DIRECT SUPERVISION), THE CONTRACTOR—PROVIDED DATA APPEARS TO REPRESENT THE PROJECT AS CONSTRUCTED.

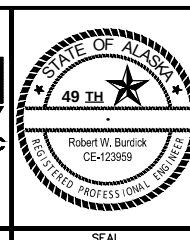
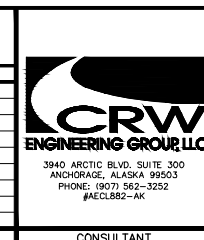
DATA TRANSFER CHECKED BY: _____ TITLE: _____

COMPANY: _____ DATE: _____

BY: _____

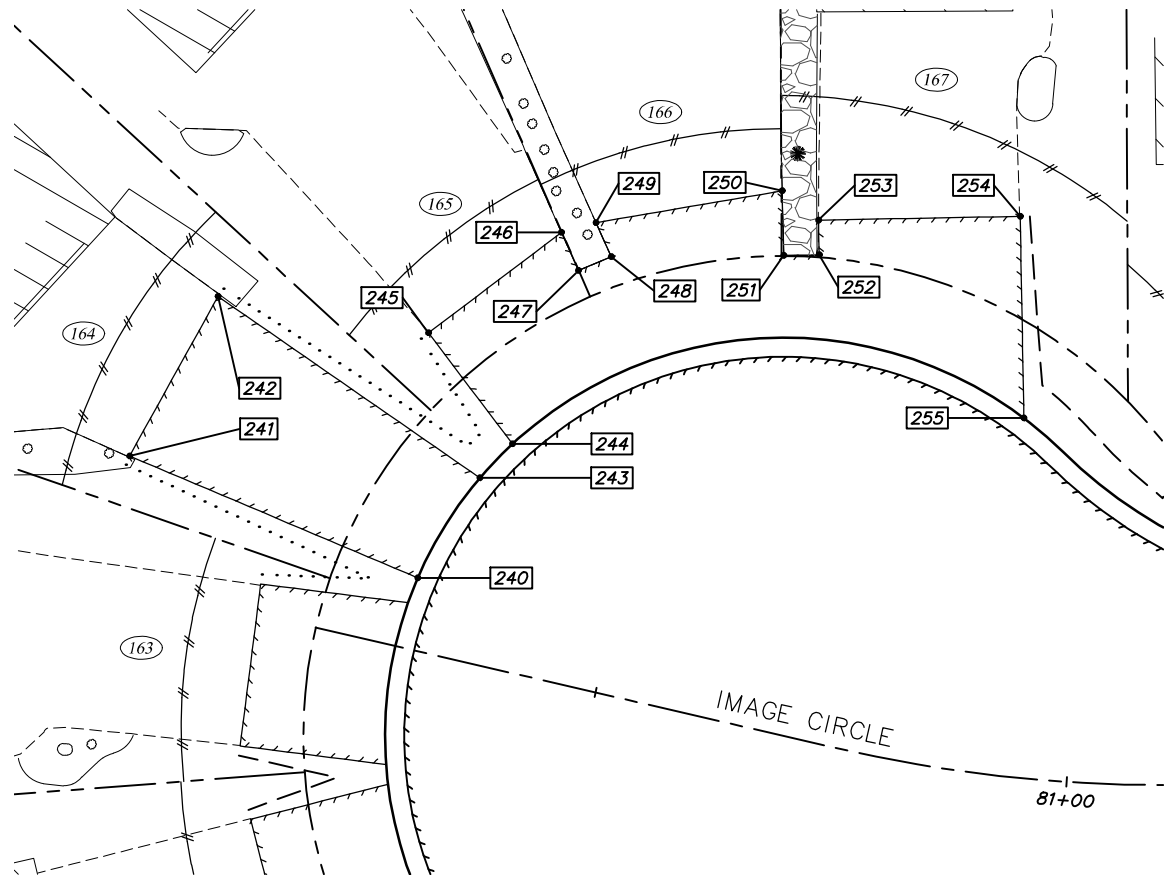
DATA	DRAWN BY	CHECKED BY
BASE	TS	MJ
TOPOGRAPHY	TS	MJ
PROFILE	RB	JK
STORM SEWER	JH	JK
WATER/SANITARY SEWER	MV	JK
GAS	MV	JK
TELEPHONE	MV	JK
ELECTRIC	TK	BM
DESIGN	RB	JK
QUANTITIES	RB	JK
PRELIMINARY/FINAL	RB	JK
MUNICIPAL/STATE	RB	JK

		20		10		0		10		20		SCALE	
FIELD BOOKS		BM NO.	LOCATION			ELEV.	REV	DATE	DESCRIPTION			BY	
DESIGN CRW Books 147, 148, & 151		GAAB 66	See page D-24 of the MOA Benchmark Book			238.10							
STAKING		GAAB 96	See page D-26 of the MOA Benchmark Book			313.83							
ASSUILT													
CONTRACTOR		BASIS OF THIS DATUM GAAB 1972 ADJUST											
INSPECTOR													
CONSTRUCTION RECORD		VERTICAL DATUM					REVISIONS						



PROJECT MANAGEMENT AND ENGINEERING DEPARTMENT			
14-50	IMAGE DRIVE / REFLECTION DRIVE AREA ROAD RECONSTRUCTION - PHASE 2		SCHED A
DRIVEWAY RECONSTRUCTION PLANS			
SCALE	HOR. 1"=10' VER. N/A	GRID SW1638, SW1738 DATE SEPT. 2019 STATUS 65%	R13 of R15 SHEET

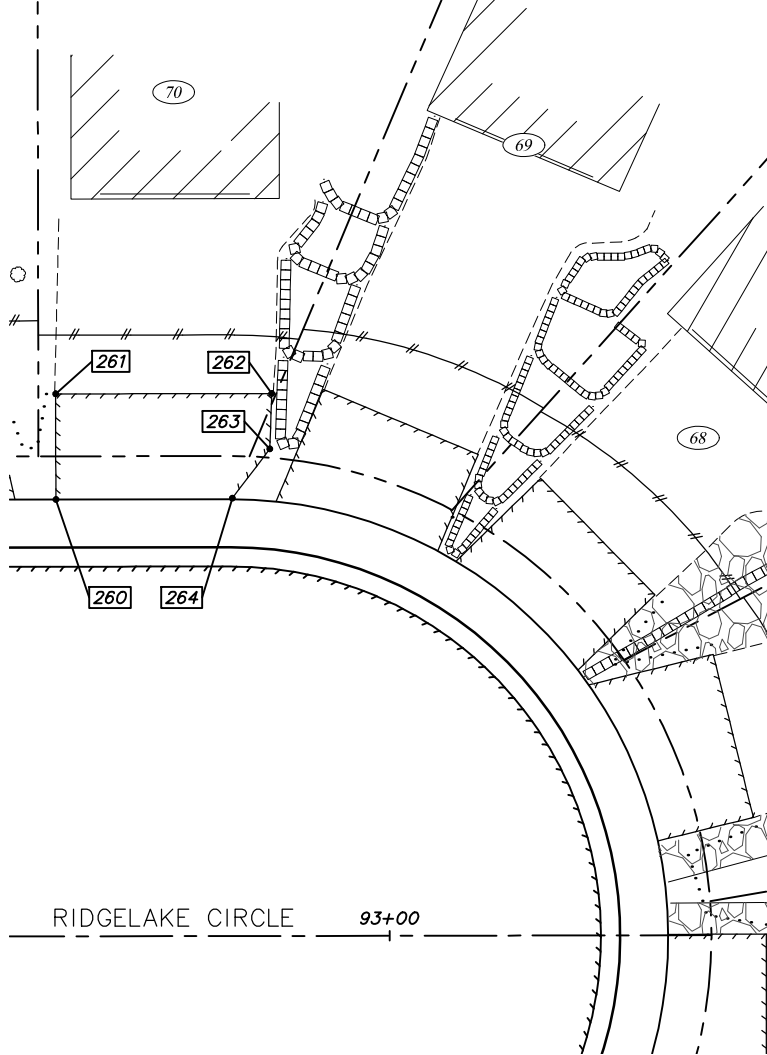
File: I:\JobData\10133.00 Image Reflection Area Reconstruction\00 CADD\01 Working Set\01 Civil\Phase 2\10133.00 Driveway Reconstruction - Phase 2.dwg



PARCEL 164-167 DRIVEWAY RECONSTRUCTION PLAN

SCALE: GRAPHIC

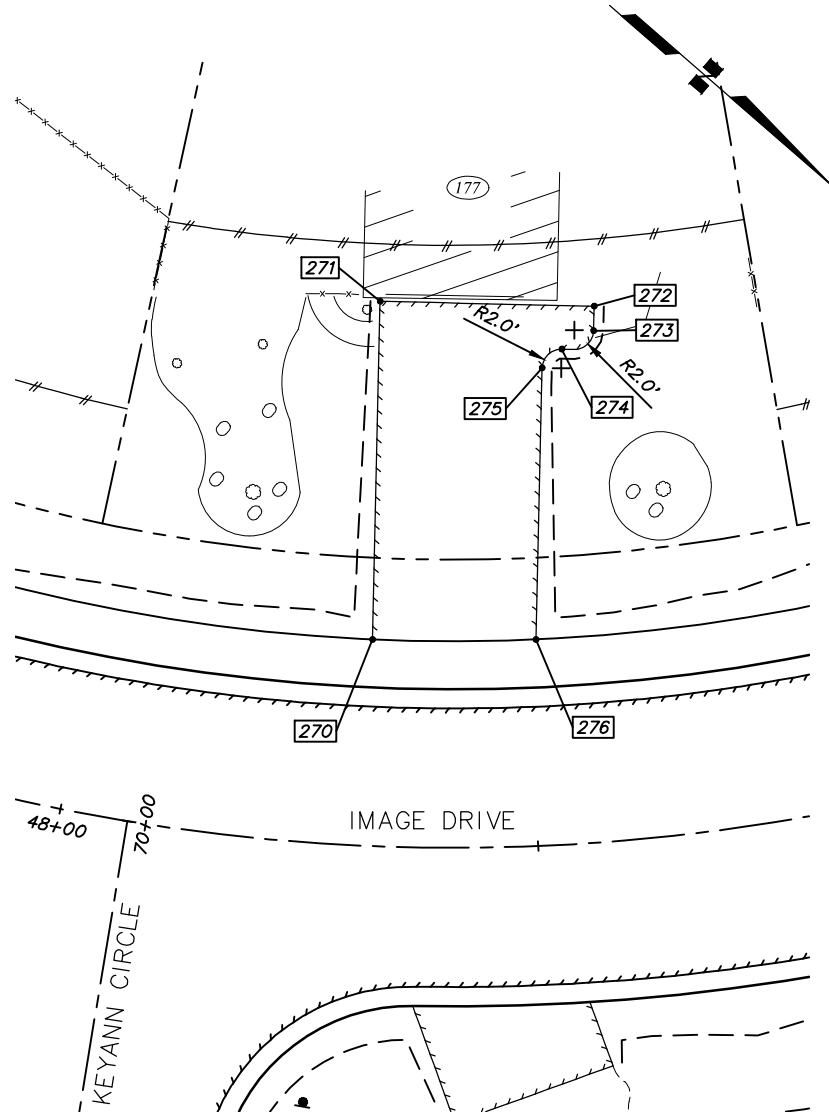
POINT SUMMARY – PARCEL 164–167				
POINT	STATION	OFFSET (FT)	ELEV (FT)	DESCRIPTION
240				
241				
242				
243				
244				
245				
246				
247				
248				
249				
250				
251				
252				
253				
254				
255				



PARCEL 68-70 DRIVEWAY RECONSTRUCTION PLAN

SCALE: GRAPHIC

POINT SUMMARY – PARCEL 68–70				
POINT	STATION	OFFSET (FT)	ELEV (FT)	DESCRIPTION
260				
261				
262				
263				
264				



PARCEL 177 DRIVEWAY RECONSTRUCTION PLAN

SCALE: GRAPHIC

POINT SUMMARY – PARCEL 177				
POINT	STATION	OFFSET (FT)	ELEV (FT)	DESCRIPTION
270				
271				
272				
273				
274				
275				
276				

RECORD DRAWING

1. DATA PROVIDED BY: _____ TITLE: _____

THIS WILL SERVE TO CERTIFY THAT THESE RECORD DRAWINGS ARE A TRUE AND ACCURATE REPRESENTATION OF THE PROJECT AS CONSTRUCTED.

CONTRACTOR: _____ DATE: _____

BY: _____

2. DATA TRANSFERRED BY: _____ TITLE: _____

COMPANY: _____ DATE: _____

3. BASED ON PERIODIC FIELD OBSERVATIONS BY THE ENGINEER (OR AN INDIVIDUAL UNDER HIS/HER DIRECT SUPERVISION), THE CONTRACTOR-PROVIDED DATA APPEARS TO REPRESENT THE PROJECT AS CONSTRUCTED.

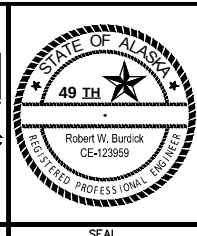
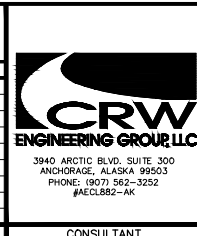
DATA TRANSFER CHECKED BY: _____ TITLE: _____

COMPANY: _____ DATE: _____

BY: _____

DATA	DRAWN BY	CHECKED BY
BASE	TS	MJ
TOPOGRAPHY	TS	MJ
PROFILE	RB	JK
STORM SEWER	JH	JK
WATER/SANITARY SEWER	MV	JK
GAS	MV	JK
TELEPHONE	MV	JK
ELECTRIC	TK	BM
DESIGN	RB	JK
QUANTITIES	RB	JK
PRELIMINARY/FINAL	RB	JK
MUNICIPAL/STATE	RB	JK

FIELD BOOKS		BM NO.	LOCATION	ELEV.	REV	DATE	DESCRIPTION	BY
DESIGN CRW Books 147, 148, & 151		GAAB 66	See page D-24 of the MOA Benchmark Book	238.10				
		GAAB 96	See page D-26 of the MOA Benchmark Book	313.83				
STAKING								
ASBUILT								
CONTRACTOR								
INSPECTOR								
BASIS OF THIS DATUM GAAB 1972 ADJUST								
REVISIONS								
CONSULTANT								
SEAL								

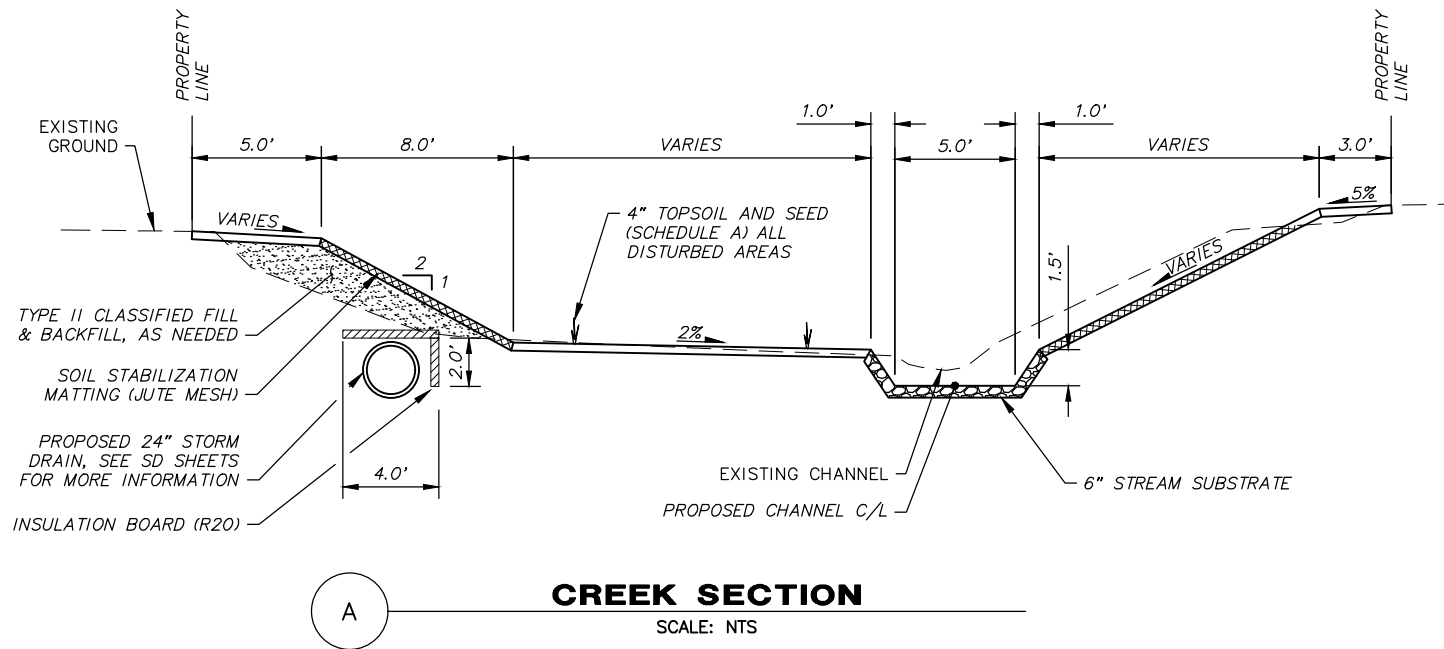
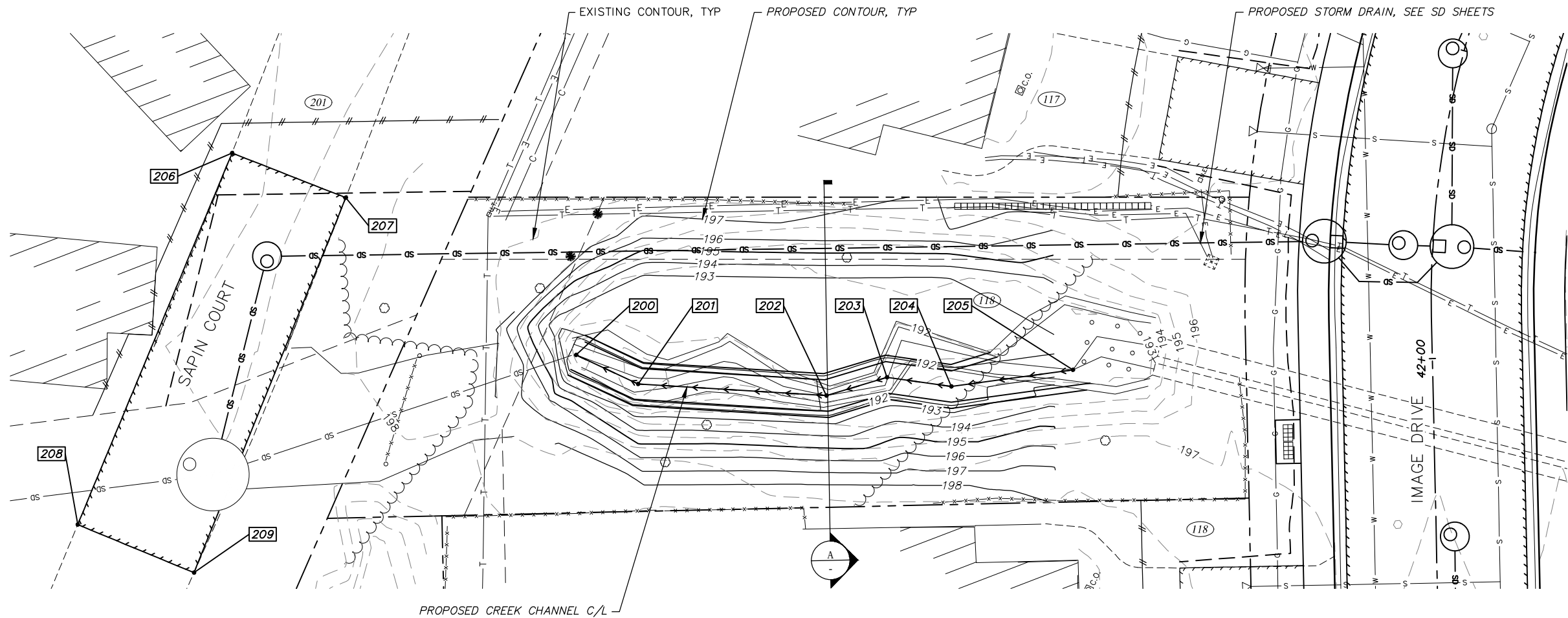


PROJECT MANAGEMENT AND ENGINEERING DEPARTMENT

14-50 IMAGE DRIVE / REFLECTION DRIVE AREA SCHED A
ROAD RECONSTRUCTION – PHASE 2

DRIVEWAY RECONSTRUCTION PLANS

SCALE: HOR. 1"=10' VER. N/A GRID: SW1638, SW1738 DATE: SEPT 2019 STATUS: 65% SHEET: R14 of R15



CREEK CENTERLINE POINT SUMMARY				
POINT	NORTHING	EASTING	ELEVATION (FT)	REMARKS
200				
201				
202				
203				
204				
205				
206				
207				
208				
209				

RECORD DRAWING

1. DATA PROVIDED BY: _____ TITLE: _____
THIS WILL SERVE TO CERTIFY THAT THESE RECORD DRAWINGS ARE A TRUE AND ACCURATE REPRESENTATION OF THE PROJECT AS CONSTRUCTED.
CONTRACTOR: _____ DATE: _____
BY: _____

2. DATA TRANSFERRED BY: _____ TITLE: _____
COMPANY: _____ DATE: _____
BY: _____

3. BASED ON PERIODIC FIELD OBSERVATIONS BY THE ENGINEER (OR AN INDIVIDUAL UNDER HIS/HER DIRECT SUPERVISION), THE CONTRACTOR-PROVIDED DATA APPEARS TO REPRESENT THE PROJECT AS CONSTRUCTED.
DATA TRANSFER CHECKED BY: _____ TITLE: _____
COMPANY: _____ DATE: _____
BY: _____

DATA	DRAWN BY	CHECKED BY
BASE		
TOPOGRAPHY		
PROFILE		
STORM SEWER		
WATER/SANITARY SEWER		
GAS		
TELEPHONE		
ELECTRIC		
DESIGN		
QUANTITIES		
PRELIMINARY/FINAL		
MUNICIPAL/STATE		

GRAPHIC SCALE 20 10 0 10 20									
FIELD BOOKS		BM NO.	LOCATION	ELEV.	REV	DATE	DESCRIPTION	BY	
DESIGN									
STAKING									
ASBUILT									
CONTRACTOR									
INSPECTOR									
PLAN CHECK		CONSTRUCTION RECORD		VERTICAL DATUM		REVISIONS			

CRW ENGINEERING GROUP LLC
3940 ARCTIC BLVD. SUITE 300
ANCHORAGE, ALASKA 99503
PHONE: (907) 562-3252
#AEC0882-AK

STATE OF ALASKA
49 TH
Robert W. Burdick
CE-123959
REGISTERED PROFESSIONAL ENGINEER

MUNICIPALITY OF ANCHORAGE

PROJECT MANAGEMENT AND ENGINEERING DEPARTMENT
14-50 IMAGE DRIVE / REFLECTION DRIVE AREA ROAD RECONSTRUCTION - PHASE 2
SCHED A
PARCEL 118 & 201 GRADING PLAN
SCALE HOR. 1"=10' VER. N/A
GRID SW1638, SW1738
DATE SEPT 2019 STATUS 65%
SHEET R15 of R15

File: I:\JobData\10133.00 Image Reflection Area Reconstruction\00 CADD\01 Working Set\01 Civil\Phase 2\10133.00 Summary Tables - Roadway - Phase 2.dwg

DRIVEWAY SUMMARY

SHEET	PARCEL	CENTERLINE REFERENCE		DRIVEWAY WIDTH AT CURB/ROW (FT)	SKEW ANGLE (DEGREES)	LANDING LENGTH (FT)	LANDING GRADE	TOTAL DISTANCE (FT)	EXISTING GRADE	PROPOSED GRADE	SURFACE TYPE ON PROPERTY	CONSTRUCT PER DETAIL	REMARKS
		STATION	OFFSET										
R1	121	40+63.46	LT	22	-90	5.0	1.5%	19.5	5.4%	6.0%	ASPHALT	DETAIL 1, SHEET D3	
R1	120	41+16.93	LT	28	-90	5.0	1.5%	20.4	4.0%	4.6%	ASPHALT	DETAIL 1, SHEET D3	
R1	119	41+57.69	LT	19	-90	5.0	1.5%	24.9	4.5%	5.5%	ASPHALT	DETAIL 1, SHEET D3	
R1	117	42+33.10	LT	16.8	-88	5.0	1.5%	28.2	3.2%	4.4%	ASPHALT	DETAIL 1, SHEET D3	
R1	116	42+57.96	LT	15.3	-98	5.0	1.5%	30.4	5.5%	5.4%	ASPHALT	DETAIL 1, SHEET D3	
R1	115	42+87.13	LT	19	-90	5.0	1.5%	22.9	5.2%	6.2%	ASPHALT	DETAIL 1, SHEET D3	
R1	114	43+20.95	LT	16	-90	5.0	1.5%	20.7	4.9%	4.8%	ASPHALT	DETAIL 1, SHEET D3	
R2	113	44+27.06	LT	17.5	-90			24.0	7.8%	5.4%	ASPHALT	DETAIL 2, SHEET D3	
R2	183	44+34.26	RT	17	90	5.0	1.5%	21.0	6.9%	6.0%	ASPHALT	DETAIL 1, SHEET D3	
R2	182	44+71.11	RT	18	90	5.0	1.8%	19.5	7.3%	6.0%	ASPHALT	DETAIL 1, SHEET D3	
R2	112	44+72.36	LT	21	-90	0.0	N/A	19.5	5.5%	3.7%	ASPHALT	DETAIL 2, SHEET D3	
R2	181	45+08.12	RT	19	90	5.0	1.5%	19.5	6.3%	4.2%	ASPHALT	DETAIL 1, SHEET D3	
R2	111	45+11.75	LT	17	-90	0.0	N/A	19.5	5.6%	4.0%	ASPHALT	DETAIL 2, SHEET D3	
R2	180	45+46.09	RT	17.5	90	5.0	1.8%	19.5	7.2%	5.9%	ASPHALT	DETAIL 1, SHEET D3	
R2	110	45+49.60	LT	17.5	-90	0.0	N/A	19.5	4.3%	2.5%	ASPHALT	DETAIL 2, SHEET D3	
R2	109	45+82.63	LT	17	-89	0.0	N/A	19.6	6.2%	6.0%	ASPHALT	DETAIL 2, SHEET D3	
R2	179	46+13.15	RT	17.5	95	5.0	1.8%	19.5	8.9%	8.9%	ASPHALT	DETAIL 1, SHEET D3	
R2	108	46+15.46	LT	17	-85	0.0	N/A	19.5	6.6%	5.7%	ASPHALT	DETAIL 2, SHEET D3	
R2	107	46+44.87	LT	17	-85	0.0	N/A	26.8	9.0%	6.9%	ASPHALT	DETAIL 2, SHEET D3	
R2	178	46+61.22	RT	18	88	5.0	1.8%	19.5	6.8%	6.3%	ASPHALT	DETAIL 1, SHEET D3	
R2	106	46+83.08	LT	18	-93	0.0	N/A	26.0	11.6%	11.2%	ASPHALT	DETAIL 2, SHEET D3	
R2	105	47+13.58	LT	20	-99	0.0	N/A	27.2	9.3%	9.4%	ASPHALT	DETAIL 2, SHEET D3	
R2	104	47+54.14	LT	17.5	-110	0.0	N/A	10.8	7.3%	8.2%	ASPHALT	DETAIL 2, SHEET D3	
R2	177	47+58.87	RT	22.3	91	5.0	1.5%	40.7	10.2%	10.1%	ASPHALT	DETAIL 1, SHEET D3	
R3	88	48+56.85	LT	32	-77	0.0	N/A	16.7	4.8%	4.2%	ASPHALT	DETAIL 2, SHEET D3	
R3	176	48+67.10	RT	19.5	95	5.0	1.5%	19.6	8.6%	8.5%	ASPHALT	DETAIL 1, SHEET D3	
R3	175	49+29.95	RT	18	91	5.0	1.5%	19.5	9.4%	7.3%	ASPHALT	DETAIL 1, SHEET D3	
R3	174	49+87.95	RT	18	86	5.0	1.5%	19.5	8.0%	6.8%	ASPHALT	DETAIL 1, SHEET D3	
R3	173	50+28.87	RT	27.5	76	5.0	1.5%	25.0	7.1%	5.2%	ASPHALT	DETAIL 1, SHEET D3	
R3	172	50+73.97	RT	30	69	5.0	1.5%	20.4	5.8%	5.7%	ASPHALT	DETAIL 1, SHEET D3	
R3	171	51+12.70	RT	19.5	79	5.0	1.5%	19.7	7.8%	7.5%	ASPHALT	DETAIL 1, SHEET D3	
R3	86	51+25.38	LT	16	-114	0.0	N/A	22.8	9.6%	8.4%	ASPHALT	DETAIL 2, SHEET D3	
R3	170	51+48.17	RT	18	86	5.0	1.5%	19.5	9.6%	8.4%	ASPHALT	DETAIL 1, SHEET D3	
R3	85	51+62.80	LT	9.5	-106	0.0	N/A	20.3	5.2%	5.1%	ASPHALT	DETAIL 2, SHEET D3	
R3	169	51+83.30	RT	26.5	88	5.0	1.5%	19.5	8.9%	8.5%	ASPHALT	DETAIL 1, SHEET D3	
R3	84	51+93.12	LT	17	-100	0.0	N/A	20.2	5.4%	6.1%	ASPHALT	DETAIL 2, SHEET D3	
R3	83	52+30.88	LT	30	-94	0.0	N/A	19.5	8.3%	8.3%	ASPHALT	DETAIL 2, SHEET D3	
R3	82	52+68.03	LT	26.5	-86	0.0	N/A	20.3	5.7%	7.6%	ASPHALT	DETAIL 2, SHEET D3	
R4	81	53+16.01	LT	10	-78	0.0	N/A	21.2	8.0%	8.8%	ASPHALT	DETAIL 2, SHEET D3	
R4	80	53+50.76	LT	21.3	-71	0.0	N/A	20.5	8.0%	6.2%	ASPHALT	DETAIL 2, SHEET D3	
R4	79	53+79.41	LT	17.5	-77	0.0	N/A	20.9	6.2%	6.1%	ASPHALT	DETAIL 2, SHEET D3	
R4	158	53+82.07	RT	18	96	5.0	1.5%	17.9	8.3%	8.2%	ASPHALT	DETAIL 1, SHEET D3	
R4	157	54+19.60	RT	18.5	95	5.0	1.5%	22.0	8.4%	9.5%	ASPHALT	DETAIL 1, SHEET D3	
R4	156	54+55.72	RT	18	96	5.0	1.5%	22.5	5.8%	6.7%	ASPHALT	DETAIL 1, SHEET D3	
R4	155	54+96.70	RT	25	94	5.0	1.5%	19.5	8.1%	8.3%	ASPHALT	DETAIL 1, SHEET D3	
R4	154	55+34.22	RT	17.5	92	5.0	1.5%	28.6	10.2%	10.2%	ASPHALT	DETAIL 1, SHEET D3	
R4	153	55+80.80	RT	28.5	82	5.0	1.5%	21.1	5.8%	6.6%	ASPHALT	DETAIL 1, SHEET D3	
R4	152	56+44.55	RT	17.5	93	5.0	1.5%	23.9	13.4%	13.1%	ASPHALT	DETAIL 1, SHEET D3	
R4	151	56+82.74	RT	22	90	5.0	1.5%	19.5	10.4%	9.0%	ASPHALT	DETAIL 1, SHEET D3	

- RECONSTRUCT DRIVEWAY NOTES:.
- "LANDING LENGTH" BEGINS AT THE BACK OF CURB & GUTTER.
 - "LANDING GRADE" IS THE GRADE OF THE LANDING FROM THE BACK OF CURB & GUTTER TO THE END OF LANDING.
 - "SKEW ANGLE" ("+" IS CLOCKWISE AND "-" IS COUNTER CLOCKWISE) IS MEASURED FROM PROJECT CENTERLINE WITH 0 DEGREES ALIGNED ALONG INCREASING STATIONS.
 - "TOTAL DISTANCE" IS THE LIMIT OF RECONSTRUCTION BEGINNING AT THE BACK OF CURB & GUTTER.
 - "PROPOSED GRADE" IS APPROXIMATE GRADE FROM THE END OF THE LANDING TO THE LIMIT OF RECONSTRUCTION. ACTUAL CONSTRUCTION GRADE MAY VARY.
 - SEE SHEET T2 FOR RECONSTRUCT DRIVEWAY SUMMARY TABLE CONTINUED.

RECORD DRAWING

1. DATA PROVIDED BY: _____ TITLE: _____

THIS WILL SERVE TO CERTIFY THAT THESE RECORD DRAWINGS ARE A TRUE AND ACCURATE REPRESENTATION OF THE PROJECT AS CONSTRUCTED.

CONTRACTOR: _____

BY: _____ TITLE: _____ DATE: _____

2. DATA TRANSFERRED BY: _____ TITLE: _____

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COMPANY: _____ DATE: _____

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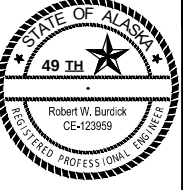
DATA		DRAWN BY	CHECKED BY
BASE	TS	MJ	
TOPOGRAPHY	TS	MJ	
PROFILE	RB	JK	
STORM SEWER	JH	JK	
WATER/SANITARY SEWER	MV	JK	
GAS	MV	JK	
TELEPHONE	MV	JK	
ELECTRIC	TK	BM	
DESIGN	RB	JK	
QUANTITIES	RB	JK	
PRELIMINARY/FINAL	RB	JK	
MUNICIPAL/STATE	RB	JK	

FIELD BOOKS		BM NO.	LOCATION	ELEV.	REV	DATE	DESCRIPTION	BY
DESIGN CRW Books 147, 148, & 151		GAAB 66	See page D-24 of the MOA Benchmark Book	238.10				
		GAAB 96	See page D-26 of the MOA Benchmark Book	313.83				
STAKING								
ASBUILT								
CONTRACTOR								
INSPECTOR								
BASIS OF THIS DATUM GAAB 1972 ADJUST								

PLAN CHECK	CONSTRUCTION RECORD	VERTICAL DATUM	REVISIONS	CONSULTANT	SEAL
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3940 ARCTIC BLVD, SUITE 300
ANCHORAGE, ALASKA 99503
PHONE: (907) 562-3252
#AEC1882-AK





PROJECT MANAGEMENT AND ENGINEERING DEPARTMENT

14-50 IMAGE DRIVE / REFLECTION DRIVE AREA SCHED A
ROAD RECONSTRUCTION - PHASE 2

ROADWAY SUMMARY TABLES

SCALE HOR. N/A
VER. N/A

GRID SW1638, SW1738
DATE SEPT 2019 STATUS 65%

SHEET T1 of T6

DRIVEWAY SUMMARY (CONTINUED)

SHEET	PARCEL	CENTERLINE REFERENCE		DRIVEWAY WIDTH AT CURB/ROW (FT)	SKEW ANGLE (DEGREES)	LANDING LENGTH (FT)	LANDING GRADE	TOTAL DISTANCE (FT)	EXISTING GRADE	PROPOSED GRADE	SURFACE TYPE ON PROPERTY	CONSTRUCT PER DETAIL	REMARKS
		STATION	OFFSET										
R5	46	25+07.15	RT	24	90	5.0	1.5%	19.5	5.4%	7.0%	ASPHALT	DETAIL 1, SHEET D3	
R5	47	25+47.64	RT	25	90	5.0	1.5%	19.5	11.2%	8.7%	ASPHALT	DETAIL 1, SHEET D3	
R5	48	25+90.40	RT	29	88	5.0	1.5%	19.5	10.8%	9.3%	ASPHALT	DETAIL 1, SHEET D3	
R5	62	25+97.19	LT	20.5	-94	5.0	1.5%	19.5	3.6%	3.3%	ASPHALT	DETAIL 1, SHEET D3	
R5	61	26+27.50	LT	22	-104	5.0	1.5%	20.0	3.7%	3.2%	ASPHALT	DETAIL 1, SHEET D3	
R5	60	26+56.79	LT	30.5	-122	5.0	1.5%	21.3	2.5%	2.6%	ASPHALT	DETAIL 1, SHEET D3	
R5	59	26+70.65	LT	16.5	-117	5.0	1.5%	60.5	2.3%	0.7%	ASPHALT	DETAIL 1, SHEET D3	
R5	58	26+85.06	LT	16	-102	19.0	2.0%	28.7	6.5%	7.0%	ASPHALT	DETAIL 2, SHEET D3	
R5	57	26+98.33	LT	14.5	-76	21.0	1.5%	29.3	0.4%	5.8%	ASPHALT	DETAIL 2, SHEET D3	
R5	56	27+10.06	LT	19	-58	5.0	2.0%	29.7	8.2%	9.0%	ASPHALT	DETAIL 1, SHEET D3	
R5	55	27+23.32	LT	20.5	-43	5.0	2.0%	21.5	13.8%	13.7%	ASPHALT	DETAIL 1, SHEET D3	
R5	54	27+41.19	LT	16.5	-57	5.0	1.5%	20.2	7.3%	7.0%	ASPHALT	DETAIL 1, SHEET D3	
R5	49	27+42.74	RT	30.1	84	5.0	1.5%	25.4	4.8%	4.0%	ASPHALT	DETAIL 1, SHEET D3	
R5	53	27+78.83	LT	10	-75	5.0	2.0%	19.8	14.6%	14.5%	ASPHALT	DETAIL 1, SHEET D3	
R5	50	27+86.42	RT	33.6	83	5.0	1.5%	24.1	-3.4%	-4.8%	ASPHALT	DETAIL 1, SHEET D3	
R5	52	28+00.54	LT	29	-81	5.0	1.5%	19.0	14.8%	14.7%	ASPHALT	DETAIL 1, SHEET D3	
R5	51	28+37.32	LT	16	-88	5.0	1.5%	18.5	11.4%	11.4%	ASPHALT	DETAIL 1, SHEET D3	
R6	200	62+52.32	RT	17	90	0.0	N/A	31.0	6.1%	7.8%	ASPHALT	DETAIL 2, SHEET D3	
R6	199	62+87.11	RT	17	96	0.0	N/A	15.6	7.3%	7.0%	ASPHALT	DETAIL 2, SHEET D3	
R6	198	63+19.94	RT	19	92	0.0	N/A	32.0	4.0%	5.1%	ASPHALT	DETAIL 2, SHEET D3	
R6	197	63+53.57	RT	19	95	0.0	N/A	19.0	3.3%	4.6%	ASPHALT	DETAIL 2, SHEET D3	
R6	184	63+62.80	LT	17	-70	0.0	N/A	21.4	8.5%	9.5%	ASPHALT	DETAIL 2, SHEET D3	
R6	196	63+89.53	RT	17	96	0.0	N/A	15.6	5.5%	5.5%	ASPHALT	DETAIL 2, SHEET D3	
R6	195	64+26.87	RT	19	103	0.0	N/A	18.0	5.7%	4.8%	ASPHALT	DETAIL 2, SHEET D3	
R6	194	64+51.45	RT	18	102	0.0	N/A	22.2	6.4%	6.5%	ASPHALT	DETAIL 2, SHEET D3	
R6	185	64+58.00	LT	18	-79	0.0	N/A	18.9	5.2%	5.8%	ASPHALT	DETAIL 2, SHEET D3	
R6	193	64+73.55	RT	15	93	0.0	N/A	15.1	5.6%	5.1%	ASPHALT	DETAIL 2, SHEET D3	
R6	192	64+84.46	RT	14	60	0.0	N/A	14.6	3.0%	3.8%	ASPHALT	DETAIL 2, SHEET D3	
R6	186	64+94.09	LT	16.5	-67	0.0	N/A	15.0	6.8%	6.6%	ASPHALT	DETAIL 2, SHEET D3	
R6	191	65+00.37	RT	13	44	0.0	N/A	14.6	3.9%	3.0%	ASPHALT	DETAIL 2, SHEET D3	
R6	187	65+07.25	LT	16.5	-47	0.0	N/A	14.7	6.4%	5.9%	ASPHALT	DETAIL 2, SHEET D3	
R6	190	65+09.88	RT	13.8	34	0.0	N/A	21.0	2.6%	2.8%	ASPHALT	DETAIL 2, SHEET D3	
R6	189	65+11.38	RT	16	0	0.0	N/A	24.0	5.8%	5.2%	ASPHALT	DETAIL 2, SHEET D3	
R6	188	65+12.20	LT	16.5	-22	0.0	N/A	19.0	6.6%	6.2%	ASPHALT	DETAIL 2, SHEET D3	
R7	103	71+06.28	LT	22	-67	0.0	N/A	7.0	12.8%	11.1%	ASPHALT	DETAIL 2, SHEET D3	
R7	89	71+34.45	RT	17	105	0.0	N/A	7.0	3.6%	4.5%	ASPHALT	DETAIL 2, SHEET D3	
R7	102	71+47.27	LT	17	-76	0.0	N/A	7.0	15.0%	13.6%	ASPHALT	DETAIL 2, SHEET D3	
R7	90	71+73.74	RT	24	95	0.0	N/A	7.0	2.4%	3.4%	ASPHALT	DETAIL 2, SHEET D3	
R7	101	71+83.68	LT	21	-87	0.0	N/A	10.9	4.9%	8.6%	ASPHALT	DETAIL 2, SHEET D3	
R7	100	72+08.03	LT	17.5	-81	0.0	N/A	11.0	3.8%	4.4%	ASPHALT	DETAIL 2, SHEET D3	
R7	91	72+15.78	RT	18	86	0.0	N/A	13.4	2.1%	1.0%	ASPHALT	DETAIL 2, SHEET D3	
R7	92	72+37.26	RT	11.5	60	0.0	N/A	7.0	2.2%	3.1%	ASPHALT	DETAIL 2, SHEET D3	
R7	99	72+44.53	LT	15	-81	0.0	N/A	7.0	7.7%	6.3%	ASPHALT	DETAIL 2, SHEET D3	
R7	93	72+59.56	RT	16	128	0.0	N/A	11.9	3.9%	3.1%	ASPHALT	DETAIL 2, SHEET D3	
R7	98	72+64.28	LT	15.5	-52	0.0	N/A	7.0	4.8%	4.3%	ASPHALT	DETAIL 2, SHEET D3	
R7	94	72+70.06	RT	10.5	28	0.0	N/A	8.8	7.0%	5.0%	ASPHALT	DETAIL 2, SHEET D3	
R7	95	72+83.77	RT	9.5	23	0.0	N/A	5.9	3.0%	2.0%	ASPHALT	DETAIL 2, SHEET D3	
R7	97	72+86.06	LT	13.7	-28	0.0	N/A	19.3	10.1%	9.8%	ASPHALT	DETAIL 2, SHEET D3	
R7	96	72+88.29	LT	21.3	-3	0.0	N/A	18.8	12.6%	9.3%	ASPHALT	DETAIL 2, SHEET D3	

RECONSTRUCT DRIVEWAY NOTES:

1. "LANDING LENGTH" BEGINS AT THE BACK OF CURB & GUTTER.
2. "LANDING GRADE" IS THE GRADE OF THE LANDING FROM THE BACK OF CURB & GUTTER TO THE END OF LANDING.
3. "SKEW ANGLE" ("+" IS CLOCKWISE AND "-" IS COUNTER CLOCKWISE) IS MEASURED FROM PROJECT CENTERLINE WITH 0 DEGREES ALIGNED ALONG INCREASING STATIONS.
4. "TOTAL DISTANCE" IS THE LIMIT OF RECONSTRUCTION BEGINNING AT THE BACK OF CURB & GUTTER.
5. "PROPOSED GRADE" IS APPROXIMATE GRADE FROM THE END OF THE LANDING TO THE LIMIT OF RECONSTRUCTION. ACTUAL CONSTRUCTION GRADE MAY VARY.
6. SEE SHEET T3 FOR RECONSTRUCT DRIVEWAY SUMMARY TABLE CONTINUED.

RECORD DRAWING

1. DATA PROVIDED BY: _____ TITLE: _____
THIS WILL SERVE TO CERTIFY THAT THESE RECORD DRAWINGS ARE A TRUE AND ACCURATE REPRESENTATION
OF THE PROJECT AS CONSTRUCTED.
CONTRACTOR: _____
BY: _____ TITLE: _____ DATE: _____

2. DATA TRANSFERRED BY: _____ TITLE: _____
COMPANY: _____ DATE: _____

3. BASED ON PERIODIC FIELD OBSERVATIONS BY THE ENGINEER (OR AN INDIVIDUAL UNDER HIS/HER DIRECT
SUPERVISION), THE CONTRACTOR—PROVIDED DATA APPEARS TO REPRESENT THE PROJECT AS CONSTRUCTED.
DATA TRANSFER CHECKED BY: _____ TITLE: _____
COMPANY: _____ DATE: _____
BY: _____

DATA			DRAWN BY	CHECKED BY							
BASE	TS	MJ									
TOPOGRAPHY	TS	MJ									
PROFILE	RB	JK	FIELD BOOKS		BM NO.	LOCATION	ELEV.	REV	DATE	DESCRIPTION	BY
STORM SEWER	JH	JK	DESIGN CRW Books 147, 148, & 151		GAAB 66	See page D-24 of the MOA Benchmark Book	238.10				
WATER/SANITARY SEWER	MV	JK			GAAB 96		See page D-26 of the MOA Benchmark Book	313.83			
GAS	MV	JK	STAKING								
TELEPHONE	MV	JK									
ELECTRIC	TK	BM									
DESIGN	RB	JK	ASBUILT								
QUANTITIES	RB	JK									
PRELIMINARY/FINAL	RB	JK	CONTRACTOR		BASIS OF THIS DATUM GAAB 1972 ADJUST						
MUNICIPAL/STATE	RB	JK									INSPECTOR
PLAN CHECK			CONSTRUCTION RECORD		VERTICAL DATUM			REVISIONS			



PROJECT MANAGEMENT AND ENGINEERING
DEPARTMENT

14-50 IMAGE DRIVE / REFLECTION DRIVE AREA SCHED A
ROAD RECONSTRUCTION - PHASE 2

ROADWAY SUMMARY TABLES

SCALE	HOR. N/A	GRID SW1638, SW1738		T2 of T6
	VER. N/A	DATE SEPT 2019	STATUS 65%	

DRIVEWAY SUMMARY (CONTINUED)													
SHEET	PARCEL	CENTERLINE REFERENCE		DRIVEWAY WIDTH AT CURB/ROW (FT)	SKEW ANGLE (DEGREES)	LANDING LENGTH (FT)	LANDING GRADE	TOTAL DISTANCE (FT)	EXISTING GRADE	PROPOSED GRADE	SURFACE TYPE ON PROPERTY	CONSTRUCT PER DETAIL	REMARKS
		STATION	OFFSET										
R8	168	80+74.45	RT	22	94	0.0	N/A	10.3	2.9%	3.4%	ASPHALT	DETAIL 2, SHEET D3	
R8	159	81+23.26	LT	16.5	-101	0.0	N/A	14.5	5.4%	7.6%	ASPHALT	DETAIL 2, SHEET D3	
R8	167	81+24.65	RT	21	80	0.0	N/A	15.0	4.7%	6.4%	ASPHALT	DETAIL 2, SHEET D3	
R8	160	81+38.41	LT	17	-77	0.0	N/A	14.5	8.2%	8.8%	ASPHALT	DETAIL 2, SHEET D3	
R8	166	81+46.41	RT	19.7	67	0.0	N/A	14.5	3.5%	3.6%	ASPHALT	DETAIL 2, SHEET D3	
R8	161	81+54.61	LT	15.5	-56	0.0	N/A	13.1	5.7%	5.5%	ASPHALT	DETAIL 2, SHEET D3	
R8	165	81+58.63	RT	17.4	41	0.0	N/A	14.6	0.5%	1.0%	ASPHALT	DETAIL 2, SHEET D3	
R8	162	81+65.32	LT	16.5	-27	0.0	N/A	14.5	5.0%	5.5%	ASPHALT	DETAIL 2, SHEET D3	
R8	164	81+69.21	RT	19	17	0.0	N/A	32.3	1.0%	1.0%	ASPHALT	DETAIL 2, SHEET D3	
R8	163	81+71.23	LT	17	-6	0.0	N/A	14.5	3.5%	3.5%	ASPHALT	DETAIL 2, SHEET D3	
R9	63	90+99.52	RT	18	116	5.0	1.5%	19.6	4.2%	4.5%	ASPHALT	DETAIL 1, SHEET D3	
R9	78	91+11.04	LT	17.5	-64	5.0	1.5%	17.3	5.3%	4.8%	ASPHALT	DETAIL 1, SHEET D3	
R9	64	91+31.14	RT	18	116	5.0	1.5%	16.0	5.2%	5.5%	ASPHALT	DETAIL 1, SHEET D3	
R9	77	91+50.21	LT	17.5	-64	5.0	1.5%	17.3	4.6%	5.3%	ASPHALT	DETAIL 1, SHEET D3	
R9	76	91+84.17	LT	18	-63	5.0	1.5%	17.4	4.1%	4.4%	ASPHALT	DETAIL 1, SHEET D3	
R9	74	92+18.51	LT	17	-130	5.0	1.5%	16.0	6.8%	5.0%	ASPHALT	DETAIL 1, SHEET D3	
R9	75	92+18.51	LT	18.5	-151	5.0	1.5%	16.0	4.9%	3.0%	ASPHALT	DETAIL 1, SHEET D3	
R9	73	92+31.56	LT	18	-142	5.0	1.5%	16.0	10.6%	8.7%	ASPHALT	DETAIL 1, SHEET D3	
R9	72	92+43.51	LT	19.5	-122	5.0	1.5%	17.2	15.1%	9.5%	ASPHALT	DETAIL 1, SHEET D3	
R9	71	92+53.49	LT	17	-103	5.0	1.5%	16.1	16.8%	10.6%	ASPHALT	DETAIL 1, SHEET D3	
R9	70	92+76.57	LT	22.5	-90	5.0	1.5%	16.0	14.8%	8.8%	ASPHALT	DETAIL 1, SHEET D3	
R9	69	92+95.04	LT	17.5	-67	5.0	1.5%	16.0	14.8%	11.3%	ASPHALT	DETAIL 1, SHEET D3	
R9	65	92+98.01	RT	18	64	5.0	1.5%	27.6	3.6%	3.0%	ASPHALT	DETAIL 1, SHEET D3	
R9	68	93+10.30	LT	17	-44	5.0	1.5%	16.0	15.6%	12.2%	ASPHALT	DETAIL 1, SHEET D3	
R9	67	93+20.29	LT	17.5	-14	5.0	1.5%	16.0	9.4%	6.8%	ASPHALT	DETAIL 1, SHEET D3	
R9	66	93+23.07	RT	17.5	26	5.0	1.5%	16.1	8.0%	5.2%	ASPHALT	DETAIL 1, SHEET D3	

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P.C.C. CURB AND GUTTER (ALL TYPES)				
SHEET	STATION TO STATION	OFFSET (FT)	LENGTH (FT)	REMARKS
R1	BOP TO 44+20	LT	380	INCLUDES SIDE STREETS & DRIVEWAYS
R1	BOP TO 44+20	RT	369	INCLUDES SIDE STREETS & DRIVEWAYS
R2	44+20 TO 48+20	LT	411	INCLUDES SIDE STREETS & DRIVEWAYS
R2	44+20 TO 48+20	RT	381	INCLUDES SIDE STREETS & DRIVEWAYS
R3	48+20 TO 52+80	LT	465	INCLUDES DRIVEWAYS
R3	48+20 TO 52+80	RT	455	INCLUDES DRIVEWAYS
R4	52+80 TO 57+05	LT	418	INCLUDES SIDE STREETS & DRIVEWAYS
R4	52+80 TO 57+05	RT	412	INCLUDES SIDE STREETS & DRIVEWAYS
R5	24+81 TO 28+61	LT	558	INCLUDES SIDE STREETS & DRIVEWAYS
R5	24+81 TO 28+61	RT	354	INCLUDES SIDE STREETS & DRIVEWAYS

P.C.C. CURB AND GUTTER (ALL TYPES)				
SHEET	STATION TO STATION	OFFSET (FT)	LENGTH (FT)	REMARKS
R6	60+75 TO 61+63	LT	89	MIRAGE CIRCLE
R6	62+36 TO 65+13	LT	285	MIRAGE CIRCLE
R6	60+75 TO 61+63	RT	89	MIRAGE CIRCLE
R6	62+36 TO 65+13	RT	326	MIRAGE CIRCLE
R7	70+40 TO 72+88	LT	294	KEYANN CIRCLE
R7	70+40 TO 72+88	RT	273	KEYANN CIRCLE
R8	80+34 TO 81+71	LT	152	IMAGE CIRCLE
R8	80+34 TO 81+71	RT	179	IMAGE CIRCLE
R9	90+35 TO EOP	LT	368	RIDGELAKE CIRCLE
R9	90+35 TO EOP	RT	191	RIDGELAKE CIRCLE

1. SEE INTERSECTION LAYOUT SHEETS SHEETS R10-R12 FOR LOCATIONS AND TYPES OF CURB AND GUTTER.

File: J:\JobsData\10133.00 Image Reflection Area Reconstruction\00 CADD\01 Working Set\01 Civil\Phase 2\10133.00 Summary Tables - Roadway - Phase 2.dwg

30.03

P.C.C. SIDEWALK

SHEET	APPX BEGIN STA	APPX OFFSET (FT)	APPX END STA	APPX OFFSET (FT)	4" THICK, AREA (SY)	6" THICK, AREA (SY)	REMARKS
R1	40+36.0	16.5 LT	40+52.5	16.5 LT	9	0	
R1	40+36.0	16.5 RT	43+48.6	17.7 RT	169	0	
R1	40+52.5	16.5 LT	40+74.5	16.5 LT	0	12	PARCEL 121 DRIVEWAY
R1	40+74.5	16.5 LT	41+02.9	16.5 LT	16	0	
R1	41+02.9	16.5 LT	41+30.9	16.5 LT	0	16	PARCEL 120 DRIVEWAY
R1	41+30.9	16.5 LT	41+48.2	16.5 LT	10	0	
R1	41+48.2	16.5 LT	41+67.2	16.5 LT	0	11	PARCEL 119 DRIVEWAY
R1	41+67.2	16.5 LT	42+25.8	16.5 LT	34	0	
R1	42+25.8	16.5 LT	42+40.3	16.5 LT	0	9	PARCEL 117 DRIVEWAY
R1	42+40.3	16.5 LT	42+50.7	16.5 LT	7	0	
R1	42+50.7	16.5 LT	42+64.2	16.5 LT	0	8	PARCEL 116 DRIVEWAY
R1	42+64.2	16.5 LT	42+77.6	16.5 LT	8	0	
R1	42+77.6	16.5 LT	42+96.6	16.5 LT	0	11	PARCEL 115 DRIVEWAY
R1	42+96.6	16.5 LT	43+13.0	16.5 LT	9	0	
R1	43+13.0	16.5 LT	43+29.0	16.5 LT	0	9	PARCEL 114 DRIVEWAY
R1	43+29.0	16.5 LT	43+47.1	16.5 LT	10	0	
R1	44+06.0	16.5 RT	44+25.8	16.5 RT	11	0	
R2	44+25.8	16.5 RT	44+42.8	16.5 RT	0	9	PARCEL 183 DRIVEWAY
R2	44+42.8	16.5 RT	44+62.1	16.5 RT	11	0	
R2	44+62.1	16.5 RT	44+80.1	16.5 RT	0	10	PARCEL 182 DRIVEWAY
R2	44+80.1	16.5 RT	44+98.6	16.5 RT	10	0	
R2	44+98.6	16.5 RT	45+17.6	16.5 RT	0	11	PARCEL 181 DRIVEWAY
R2	45+17.6	16.5 RT	45+37.3	16.5 RT	11	0	
R2	45+37.3	16.5 RT	45+54.8	16.5 RT	0	10	PARCEL 180 DRIVEWAY
R2	45+54.8	16.5 RT	46+02.8	16.5 RT	25	0	
R2	46+02.8	16.5 RT	46+22.4	16.5 RT	0	10	PARCEL 179 DRIVEWAY
R2	46+22.4	16.5 RT	46+54.5	16.5 RT	15	0	
R2	46+54.5	16.5 RT	46+71.5	16.5 RT	0	10	PARCEL 178 DRIVEWAY
R2	46+71.5	16.5 RT	47+49.3	16.5 RT	39	0	
R2	47+49.3	16.5 RT	47+68.2	16.5 RT	0	10	PARCEL 177 DRIVEWAY
R2	47+68.2	16.5 RT	48+55.6	16.5 RT	44	0	
R3	48+55.6	16.5 RT	48+77.5	16.5 RT	0	11	PARCEL 176 DRIVEWAY
R3	48+77.5	16.5 RT	49+19.8	16.5 RT	21	0	
R3	49+19.8	16.5 RT	49+39.8	16.5 RT	0	10	PARCEL 175 DRIVEWAY
R3	49+39.8	16.5 RT	49+78.3	16.5 RT	19	0	
R3	49+78.3	16.5 RT	49+98.5	16.5 RT	0	10	PARCEL 174 DRIVEWAY
R3	49+98.5	16.5 RT	50+14.7	16.5 RT	8	0	
R3	50+14.7	16.5 RT	50+46.6	16.5 RT	0	16	PARCEL 173 DRIVEWAY
R3	50+46.6	16.5 RT	50+60.7	16.5 RT	8	0	
R3	50+60.7	16.5 RT	50+90.3	16.5 RT	0	18	PARCEL 172 DRIVEWAY
R3	50+90.3	16.5 RT	51+04.3	16.5 RT	8	0	
R3	51+04.3	16.5 RT	51+22.7	16.5 RT	0	11	PARCEL 171 DRIVEWAY
R3	51+22.7	16.5 RT	51+40.1	16.5 RT	10	0	
R3	51+40.1	16.5 RT	51+56.8	16.5 RT	0	10	PARCEL 170 DRIVEWAY
R3	51+56.8	16.5 RT	51+71.1	16.5 RT	8	0	
R3	51+71.1	16.5 RT	51+95.7	16.5 RT	0	15	PARCEL 169 DRIVEWAY
R3	51+95.7	16.5 RT	53+11.3	16.5 RT	68	0	

30.03

P.C.C. SIDEWALK (CONTINUED)

SHEET	APPX BEGIN STA	APPX OFFSET (FT)	APPX END STA	APPX OFFSET (FT)	4" THICK, AREA (SY)	6" THICK, AREA (SY)	REMARKS
R4	53+64.1	16.5 RT	53+72.8	16.5 RT	5	0	
R4	53+72.8	16.5 RT	53+90.6	16.5 RT	0	10	PARCEL 158 DRIVEWAY
R4	53+90.6	16.5 RT	54+09.8	16.5 RT	11	0	
R4	54+09.8	16.5 RT	54+28.4	16.5 RT	0	10	PARCEL 157 DRIVEWAY
R4	54+28.4	16.5 RT	54+46.1	16.5 RT	10	0	
R4	54+46.1	16.5 RT	54+64.2	16.5 RT	0	10	PARCEL 156 DRIVEWAY
R4	54+64.2	16.5 RT	54+83.1	16.5 RT	11	0	
R4	54+83.1	16.5 RT	55+09.6	16.5 RT	0	14	PARCEL 155 DRIVEWAY
R4	55+09.6	16.5 RT	55+24.8	16.5 RT	8	0	
R4	55+13.6	16.5 RT	57+12.6	16.5 RT	114	0	
R4	57+12.6	16.5 RT	55+43.3	16.5 RT	0	10	PARCEL 154 DRIVEWAY
R4	55+43.3	16.5 RT	55+66.3	16.5 RT	12	0	
R4	55+66.3	16.5 RT	55+96.8	16.5 RT	0	16	PARCEL 153 DRIVEWAY
R4	55+96.8	16.5 RT	56+34.9	16.5 RT	20	0	
R4	56+34.9	16.5 RT	56+53.5	16.5 RT	0	10	PARCEL 152 DRIVEWAY
R4	56+53.5	16.5 RT	56+71.7	16.5 RT	10	0	
R4	56+71.7	16.5 RT	56+93.7	16.5 RT	0	12	PARCEL 151 DRIVEWAY
R4	56+93.7	16.5 RT	57+12.6	18.2 RT	10	0	
R5	24+81.0	16.5 RT	24+95.2	16.5 RT	8	0	
R5	24+95.2	16.5 RT	25+19.2	16.5 RT	0	13	PARCEL 46 DRIVEWAY
R5	25+19.2	16.5 RT	25+35.1	16.5 RT	9	0	
R5	25+35.1	16.5 RT	25+60.1	16.5 RT	0	14	PARCEL 47 DRIVEWAY
R5	25+60.1	16.5 RT	25+73.3	16.5 RT	8	0	
R5	25+70.7	17.7 LT	25+88.0	16.5 LT	9	0	
R5	25+88.0	16.5 RT	26+07.7	16.5 RT	0	16	PARCEL 48 DRIVEWAY
R5	26+07.7	16.5 RT	26+05.9	16.5 LT	0	11	PARCEL 62 DRIVEWAY
R5	26+05.9	16.5 LT	26+16.4	16.5 LT	7	0	
R5	26+16.4	16.5 RT	27+30.2	16.5 RT	59	0	
R5	27+30.2	16.5 RT	26+37.0	17.4 LT	0	13	PARCEL 61 DRIVEWAY
R5	26+37.0	17.4 LT	26+46.1	21.0 LT	6	0	
R5	26+46.1	21.0 LT	26+76.1	57.8 LT	0	30	PARCEL 60&59 DRIVEWAY
R5	26+76.1	57.8 LT	26+80.6	60.9 LT	4	0	
R5	26+80.6	60.9 LT	26+90.3	56.8 LT	0	9	PARCEL 58 DRIVEWAY
R5	26+90.3	56.8 LT	26+90.3	65.2 LT	3	0	
R5	26+90.3	65.2 LT	27+27.0	38.9 LT	0	33	PARCEL 57,56,55 DRIVEWAY
R5	27+27.0	38.9 LT	27+34.7	26.7 LT	8	0	
R5	27+34.7	16.5 RT	28+06.2	16.5 RT	0	37	PARCEL 49&50 DRIVEWAY
R5	28+06.2	16.5 RT	27+48.6	17.9 LT	0	10	PARCEL 54 DRIVEWAY
R5	27+48.6	17.9 LT	27+75.4	16.5 LT	16	0	
R5	27+75.4	16.5 LT	28+13.9	16.5 LT	0	24	PARCEL 53,52 DRIVEWAY
R5	28+13.9	16.5 RT	28+60.6	16.5 RT	29	0	
R5	28+60.6	16.5 RT	28+29.5	16.5 LT	9	0	
R5	28+29.5	16.5 LT	28+45.5	16.5 LT	0	9	PARCEL 51 DRIVEWAY
R5	28+45.5	16.5 LT	28+60.6	16.5 LT	8	0	

P.C.C. SIDEWALK NOTES:

1. SEE SHEET T5 FOR P.C.C. SIDEWALK SUMMARY TABLE CONTINUED.

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30.03

P.C.C. SIDEWALK (CONTINUED)							

SHEET	APPX BEGIN STA	APPX OFFSET (FT)	APPX END STA	APPX OFFSET (FT)	4" THICK, AREA (SY)	6" THICK, AREA (SY)	REMARKS
R9	90+27.4	17.0 RT	90+87.0	15.5 RT	33	0	
R9	90+28.1	17.3 LT	91+03.8	17.3 LT	42	0	
R9	90+87.0	15.5 RT	91+07.4	15.8 RT	0	11	PARCEL 63 DRIVEWAY
R9	91+03.8	15.5 LT	91+23.3	15.5 LT	0	11	PARCEL 78 DRIVEWAY
R9	91+07.4	15.8 RT	91+22.5	19.5 RT	8	0	
R9	91+22.5	19.5 RT	91+39.6	29.0 RT	0	11	PARCEL 64 DRIVEWAY
R9	91+23.3	15.5 LT	91+42.9	15.5 LT	11	0	
R9	91+39.6	29.0 RT	92+92.8	46.3 RT	14	0	
R9	91+42.9	15.5 LT	91+62.4	15.5 LT	0	11	PARCEL 77 DRIVEWAY
R9	91+62.4	15.5 LT	91+76.6	15.5 LT	8	0	
R9	91+76.6	15.5 LT	91+96.9	15.5 LT	0	11	PARCEL 76 DRIVEWAY
R9	91+96.9	15.5 LT	92+18.5	15.5 LT	12	0	
R9	92+18.5	15.5 LT	92+18.6	31.9 LT	0	22	PARCEL 75&74 DRIVEWAY
R9	92+18.6	31.9 LT	92+23.9	35.4 LT	4	0	
R9	92+23.9	35.4 LT	93+23.1	8.7 LT	0	78	PARCEL 67-73 DRIVEWAY
R9	93+23.1	8.7 LT	93+12.9	27.9 RT	0	15	PARCEL 65 DRIVEWAY
R9	93+12.9	27.9 RT	93+20.9	15.5 RT	9	0	
R9	93+20.9	15.5 RT	93+24.0	0.1 LT	0	9	PARCEL 66 DRIVEWAY
R9	93+24.0	0.1 LT	93+24.0	0.1 LT	5	0	

30.04

P.C.C. CURB RAMP (6" THICK) & DETECTABLE WARNINGS

SHEET	APPX STATION	OFFSET	CURB RAMP AREA (SY)	DETECTABLE WARNING AREA (SF)	CURB RAMP TYPE	REMARKS
R1	43+54	LT	7	12	PARALLEL	IMAGE DRIVE
R1	43+55	RT	7	12	PARALLEL	IMAGE DRIVE
R1	43+99	RT	7	12	PARALLEL	IMAGE DRIVE
R5	25+18	RT	7	12	PARALLEL	IMAGE DRIVE
R5	25+64	LT	8	12	PARALLEL	IMAGE DRIVE
R8	53+18	RT	7	12	PARALLEL	IMAGE CIRCLE
R8	53+58	RT	7	12	PARALLEL	IMAGE CIRCLE
R9	90+22	LT	7	12	PARALLEL	REFLECTION DRIVE
R9	90+21	RT	8	12	PARALLEL	REFLECTION DRIVE

PCC CURB RAMP & DETECTABLE WARNING NOTES:

1. SEE INTERSECTION LAYOUT SHEETS R10-R12 FOR LOCATIONS OF CURB RAMP AND DETECTABLE WARNINGS.

40.07

ASPHALT SPEED HUMP

SHEET	STATION	REMARKS
R2	44+90.73	IMAGE DRIVE
R4	54+01.74	IMAGE DRIVE

50.06

REMOVE AND REPLACE MANHOLE CONE SECTION OR MANHOLE COVER AND FRAME					
SHEET	STATION	OFFSET (FT)	CONE SECTION	COVER AND FRAME	REMARKS

SHEET	STATION	OFFSET (FT)	CONE SECTION	COVER AND FRAME	REMARKS
R1	42+38	7.2 RT		X	IMAGE DRIVE
R1	43+69	10.1 RT		X	IMAGE DRIVE
R2	46+05	7.9 RT		X	IMAGE DRIVE
R2	46+74	9.1 RT		X	IMAGE DRIVE
R2	48+04	0.7 RT		X	IMAGE DRIVE
R3	49+47	5.9 RT	X		IMAGE DRIVE
R3	51+98	13.6 RT	X		IMAGE DRIVE
R4	53+26	11.7 RT		X	IMAGE DRIVE
R4	54+99	10.2 RT		X	IMAGE DRIVE
R5	26+14	6.7 RT		X	DEFIANCE STREET
R5	26+96	18.1 LT		X	DEFIANCE STREET
R6	62+90	12.0 RT	X		MIRAGE CIRCLE
R7	71+23	1.3 RT		X	KEYANN CIRCLE
R7	72+36	1.8 RT		X	KEYANN CIRCLE
R8	81+00	1.0 RT	X		IMAGE CIRCLE
R9	91+60	11.7 RT		X	RIDGELAKE CIRCLE

SANITARY SEWER MANHOLE CONE/RING NOTES:

1. SEE MASS DETAILS 50-25 AND 50-26.
2. COORDINATE W/ ENGINEER IN FIELD TO VERIFY WHETHER CONE SECTION OR MANHOLE COVER AND FRAME REPLACEMENT

50.09

ADJUST CLEANOUT TO FINISH GRADE

SHEET	STATION	OFFSET (FT)	REMARKS
R4	56+56	8.1 RT	IMAGE DRIVE
R5	26+92	58.2 LT	DEFIANCE STREET
R5	28+39	9.6 RT	DEFIANCE STREET
R6	64+86	30.9 RT	MIRAGE CIRCLE
R7	72+82	5.8 LT	KEYANN CIRCLE
R8	81+66	4.3 LT	IMAGE CIRCLE
R9	92+89	31.2 LT	RIDGELAKE CIRCLE

RECORD DRAWING

1. DATA PROVIDED BY: _____ TITLE: _____
THIS WILL SERVE TO CERTIFY THAT THESE RECORD DRAWINGS ARE A TRUE AND ACCURATE REPRESENTATION
OF THE PROJECT AS CONSTRUCTED.
CONTRACTOR: _____
BY: _____ TITLE: _____ DATE: _____

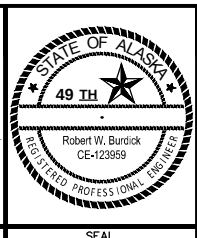
2. DATA TRANSFERRED BY: _____ TITLE: _____
COMPANY: _____ DATE: _____

3. BASED ON PERIODIC FIELD OBSERVATIONS BY THE ENGINEER (OR AN INDIVIDUAL UNDER HIS/HER DIRECT
SUPERVISION), THE CONTRACTOR-PROVIDED DATA APPEARS TO REPRESENT THE PROJECT AS CONSTRUCTED.
DATA TRANSFER CHECKED BY: _____ TITLE: _____
COMPANY: _____ DATE: _____
BY: _____

DATA	DRAWN BY	CHECKED BY									
BASE	TS	MJ									
TOPOGRAPHY	TS	MJ									
PROFILE	RB	JK	FIELD BOOKS		BM NO.	LOCATION	ELEV.	REV	DATE	DESCRIPTION	BY
STORM SEWER	JH	JK	DESIGN CRW Books 147, 148, & 151		GAAB 66	See page D-24 of the MOA Benchmark Book	238.10				
WATER/SANITARY SEWER	MV	JK			GAAB 96	See page D-26 of the MOA Benchmark Book	313.83				
GAS	MV	JK	STAKING								
TELEPHONE	MV	JK									
ELECTRIC	TK	BM									
DESIGN	RB	JK	ASBUILT								
QUANTITIES	RB	JK	CONTRACTOR		BASIS OF THIS DATUM GAAB 1972 ADJUST						
PRELIMINARY/FINAL	RB	JK	INSPECTOR								
MUNICIPAL/STATE	RB	JK									
D I A N C H E C K			CONSTRUCTION RECORD			VERTICAL DATUM			REVISIONS		

CRW
ENGINEERING GROUP, LLC
3940 ARCTIC BLVD. SUITE 300
ANCHORAGE, ALASKA 99503
PHONE: (907) 562-3252
#AECLE82-AK

CONSULTANT



PROJECT MANAGEMENT AND ENGINEERING
DEPARTMENT

14-50	IMAGE DRIVE / REFLECTION DRIVE AREA ROAD RECONSTRUCTION - PHASE 2	SCHED A
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ROADWAY SUMMARY TABLES

SCALE HOR. N/A VER. N/A GRID SW1638, SW1738 DATE SEPT 2019 STATUS 65% SHEET T5 of T6

60.03 & 60.05

REMOVE AND REPLACE VALVE BOX TOP SECTION OR ADJUST KEY BOX

SHEET	STATION	OFFSET (FT)	KEY BOX	VALVE BOX TOP SECTION	REMARKS
R1	40+70	29.2 LT	X		IMAGE DRIVE
R1	40+71	11.4 LT		X	IMAGE DRIVE
R1	41+04	31.3 LT	X		IMAGE DRIVE
R1	41+52	29.8 LT	X		IMAGE DRIVE
R1	42+41	30.8 LT	X		IMAGE DRIVE
R1	42+49	31.1 LT	X		IMAGE DRIVE
R1	42+97	31.2 LT	X		IMAGE DRIVE
R1	44+07	12.5 LT		X	IMAGE DRIVE
R1	44+10	14.8 LT		X	IMAGE DRIVE
R2	45+23	31.3 LT	X		IMAGE DRIVE
R3	45+25	29.9 RT	X		IMAGE DRIVE
R2	45+32	30.8 LT	X		IMAGE DRIVE
R2	47+08	31.7 LT	X		IMAGE DRIVE
R2	47+72	28.4 RT	X		IMAGE DRIVE
R2	47+87	17.6 LT		X	IMAGE DRIVE
R3	48+91	11.1 LT		X	IMAGE DRIVE
R3	50+94	30.9 RT	X		IMAGE DRIVE
R3	51+23	31.0 LT	X		IMAGE DRIVE
R3	52+18	12.0 LT		X	IMAGE DRIVE
R3	52+24	31.8 LT	X		IMAGE DRIVE
R4	52+85	31.4 LT	X		IMAGE DRIVE
R4	53+68	13.4 LT		X	IMAGE DRIVE
R4	54+09	28.8 RT	X		IMAGE DRIVE
R4	54+84	30.5 RT	X		IMAGE DRIVE
R4	55+11	11.4 LT		X	IMAGE DRIVE
R4	56+62	30.2 LT	X		IMAGE DRIVE
R4	56+71	21.6 RT	X		IMAGE DRIVE
R5	24+97	28.5 RT	X		DEFIANCE STREET
R5	25+01	13.3 LT		X	DEFIANCE STREET
R5	25+10	11.4 LT		X	DEFIANCE STREET
R5	25+68	11.3 LT		X	DEFIANCE STREET
R5	26+34	32.7 LT	X		DEFIANCE STREET
R5	26+40	36.6 LT	X		DEFIANCE STREET
R5	26+79	87.6 LT	X		DEFIANCE STREET
R5	27+03	87.6 LT	X		DEFIANCE STREET
R5	27+58	28.9 RT	X		DEFIANCE STREET
R5	27+73	30.6 RT	X		DEFIANCE STREET
R5	28+37	8.0 LT		X	DEFIANCE STREET
R6	61+71	15.1 LT		X	MIRAGE CIRCLE
R6	63+30	24.7 RT	X		MIRAGE CIRCLE
R6	63+97	24.8 RT	X		MIRAGE CIRCLE
R6	64+58	48.0 RT	X		MIRAGE CIRCLE
R6	64+93	43.3 RT	X		MIRAGE CIRCLE
R6	64+99	38.6 RT	X		MIRAGE CIRCLE
R6	65+16	18.7 RT	X		MIRAGE CIRCLE
R6	65+17	26.0 LT	X		MIRAGE CIRCLE
R6	65+19	9.4 RT	X		MIRAGE CIRCLE
R6	65+20	16.4 RT	X		MIRAGE CIRCLE

60.03 & 60.05

REMOVE AND REPLACE VALVE BOX TOP SECTION OR ADJUST KEY BOX (CONTINUED)

SHEET	STATION	OFFSET (FT)	KEY BOX	VALVE BOX TOP SECTION	REMARKS
R7	70+37	9.2 LT		X	KEYANN CIRCLE
R7	72+00	29.5 LT	X		KEYANN CIRCLE
R7	72+56	49.7 RT	X		KEYANN CIRCLE
R7	72+88	28.6 RT	X		KEYANN CIRCLE
R7	72+96	0.8 LT	X		KEYANN CIRCLE
R7	72+96	10.3 LT	X		KEYANN CIRCLE
R8	80+32	11.3 LT		X	IMAGE CIRCLE
R8	80+51	13.1 LT		X	IMAGE CIRCLE
R8	81+01	39.0 RT	X		IMAGE CIRCLE
R8	81+29	50.9 LT	X		IMAGE CIRCLE
R8	81+38	50.7 LT	X		IMAGE CIRCLE
R8	81+57	43.5 RT	X		IMAGE CIRCLE
R8	81+64	36.2 RT	X		IMAGE CIRCLE
R8	81+64	37.2 RT	X		IMAGE CIRCLE
R8	81+71	30.7 LT	X		IMAGE CIRCLE
R8	81+80	0.0 RT	X		IMAGE CIRCLE
R8	81+80	9.2 RT	X		IMAGE CIRCLE
R9	90+18	12.1 LT		X	RIDGELAKE CIRCLE
R9	91+00	7.5 LT		X	RIDGELAKE CIRCLE
R9	91+11	23.7 LT	X		RIDGELAKE CIRCLE
R9	91+32	37.9 RT	X		RIDGELAKE CIRCLE
R9	91+77	105.3 RT	X		RIDGELAKE CIRCLE
R9	91+79	24.4 LT	X		RIDGELAKE CIRCLE
R9	92+19	30.2 LT	X		RIDGELAKE CIRCLE
R9	92+19	33.3 LT	X		RIDGELAKE CIRCLE
R9	92+38	49.0 LT	X		RIDGELAKE CIRCLE
R9	92+58	49.4 LT	X		RIDGELAKE CIRCLE
R9	92+70	49.8 LT	X		RIDGELAKE CIRCLE
R9	93+02	44.9 LT	X		RIDGELAKE CIRCLE
R9	93+12	43.0 LT	X		RIDGELAKE CIRCLE

SPECIAL FILL GRADING TABLE

SHEET	APPROX BEGIN STATION	APPROX END STATION	OFFSET	REMARKS
R1	40+36	40+66	21.5 RT	IMAGE DRIVE
R1	40+95	41+39	21.5 RT	IMAGE DRIVE
R1	43+25	43+48	21.5 RT	IMAGE DRIVE
R2	44+14	44+26	21.5 RT	IMAGE DRIVE
R2	44+36	44+62	16.5 LT	IMAGE DRIVE
R2	44+80	44+99	21.5 RT	IMAGE DRIVE
R2	44+83	45+03	16.5 LT	IMAGE DRIVE
R2	45+18	5+37	21.5 RT	IMAGE DRIVE
R2	45+20	45+41	16.5 RT	IMAGE DRIVE
R2	45+55	46+03	21.5 RT	IMAGE DRIVE
R2	45+58	45+74	16.5 LT	IMAGE DRIVE
R2	45+91	46+08	16.5 LT	IMAGE DRIVE
R2	46+22	46+54	21.5 RT	IMAGE DRIVE
R2	46+23	46+37	16.5 LT	IMAGE DRIVE

SPECIAL FILL GRADING TABLE (CONTINUED)

SHEET	APPROX BEGIN STATION	APPROX END STATION	OFFSET	REMARKS
R3	48+97	49+20	21.5 RT	IMAGE DRIVE
R3	49+40	49+78	21.5 RT	IMAGE DRIVE
R3	49+98	50+15	21.5 RT	IMAGE DRIVE
R3	50+47	50+61	21.5 RT	IMAGE DRIVE
R3	50+90	51+04	21.5 RT	IMAGE DRIVE
R3	50+99	51+16	16.5 LT	IMAGE DRIVE
R3	51+23	51+40	21.5 RT	IMAGE DRIVE
R3	51+48	51+58	16.5 LT	IMAGE DRIVE
R3	51+57	51+71	21.5 RT	
R4	55+10	55+25	21.5 RT	IMAGE DRIVE
R5	25+60	25+75	21.5 RT	DEFIANCE STREET
R5	25+73	25+88	21.5 LT	DEFIANCE STREET
R5	26+08	26+69	21.5 RT	DEFIANCE STREET
R5	27+22	27+30	21.5 RT	DEFIANCE STREET
R5	27+50	27+60	21.5 LT	DEFIANCE STREET
R5	28+06	28+61	21.5 RT	DEFIANCE STREET
R6	64+35	64+44	22.5 RT	MIRAGE CIRCLE
R6	64+90	64+96	34.0 RT	MIRAGE CIRCLE
R6	65+03	65+07	21.5 RT	MIRAGE CIRCLE
R7	72+18	72+37	35.0 LT	KEYANN CIRCLE
R7	72+45	72+51	41.4 RT	KEYANN CIRCLE
R7	72+52	72+57	40.5 LT	KEYANN CIRCLE
R7	72+71	72+79	30.0 LT	KEYANN CIRCLE
R7	72+87	72+86	12.0 RT	KEYANN CIRCLE
R8	81+64	81+66	20.0 RT	IMAGE CIRCLE
R8	81+71	81+71	5.0 RT	IMAGE CIRCLE
R9	91+43	92+97	44.0 RT	RIDGELAKE CIRCLE
R9	92+19	92+19	25.9 RT	RIDGELAKE CIRCLE
R9	92+19	92+21	39.8 LT	RIDGELAKE CIRCLE
R9	92+38	92+43	45.4 LT	RIDGELAKE CIRCLE
R9	92+61	92+65	45.5 LT	RIDGELAKE CIRCLE
R9	93+16	93+26	26.5 LT	RIDGELAKE CIRCLE
R9	93+28	93+29	5.0 LT	RIDGELAKE CIRCLE

SPECIAL FILL GRADING NOTES:

1. SPECIAL FILL GRADING SHALL BE PER DETAIL 2, SHEET C3.
2. LOCATIONS ARE APPROXIMATE, CONTRACTOR SHALL MODIFY LOCATIONS IN THE FIELD PER THE DIRECTION OF THE ENGINEER OR AS NECESSARY TO PROVIDE POSITIVE DRAINAGE TOWARD ROADWAY. THIS WORK SHALL BE INCIDENTAL TO THE CONTRACT AND NO SEPARATE PAYMENT SHALL BE MADE.

RECORD DRAWING

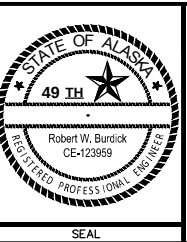
1. DATA PROVIDED BY: _____ TITLE: _____
THIS WILL SERVE TO CERTIFY THAT THESE RECORD DRAWINGS ARE A TRUE AND ACCURATE REPRESENTATION
OF THE PROJECT AS CONSTRUCTED.
CONTRACTOR: _____
BY: _____ TITLE: _____ DATE: _____

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COMPANY: _____ DATE: _____

3. BASED ON PERIODIC FIELD OBSERVATIONS BY THE ENGINEER (OR AN INDIVIDUAL UNDER HIS/HER DIRECT
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COMPANY: _____ DATE: _____
BY: _____

DATA	DRAWN BY	CHECKED BY
BASE	TS	MJ
TOPOGRAPHY	TS	MJ
PROFILE	RB	JK
STORM SEWER	JH	JK
WATER/SANITARY SEWER	MV	JK
GAS	MV	JK
TELEPHONE	MV	JK
ELECTRIC	TK	BM
DESIGN	RB	JK
QUANTITIES	RB	JK
PRELIMINARY/FINAL	RB	JK
MUNICIPAL/STATE	RB	JK

FIELD BOOKS							BM NO.	LOCATION	ELEV.	REV	DATE	DESCRIPTION	BY
DESIGN CRW Books 147, 148, & 151							GAAB 66	See page D-24 of the MOA Benchmark Book	238.10				
							GAAB 96	See page D-26 of the MOA Benchmark Book	313.83				
STAKING													
ASBUILT													
CONTRACTOR							BASIS OF THIS DATUM GAAB 1972 ADJUST						
INSPECTOR													
CONSTRUCTION RECORD							VERTICAL DATUM			REVISIONS			

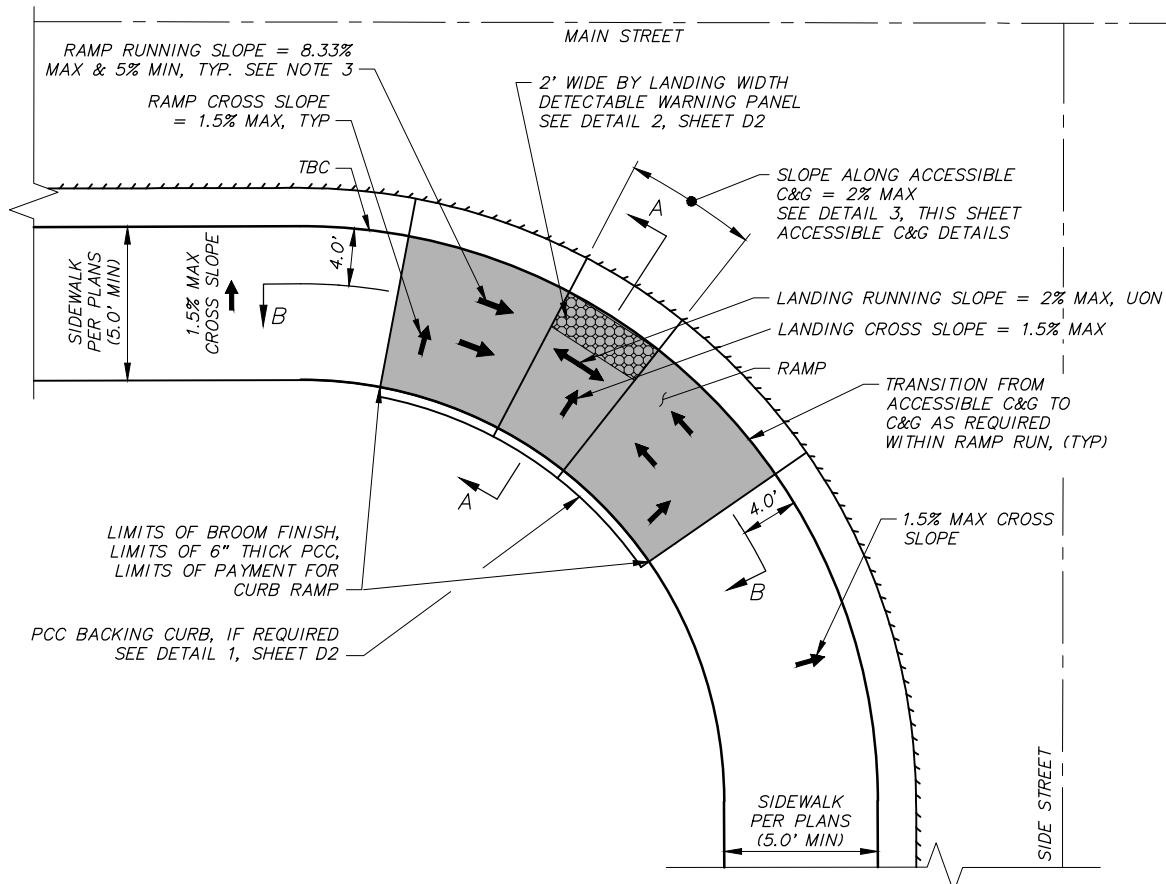


PROJECT MANAGEMENT AND ENGINEERING
DEPARTMENT

14-50 IMAGE DRIVE / REFLECTION DRIVE AREA SCHED A
ROAD RECONSTRUCTION - PHASE 2

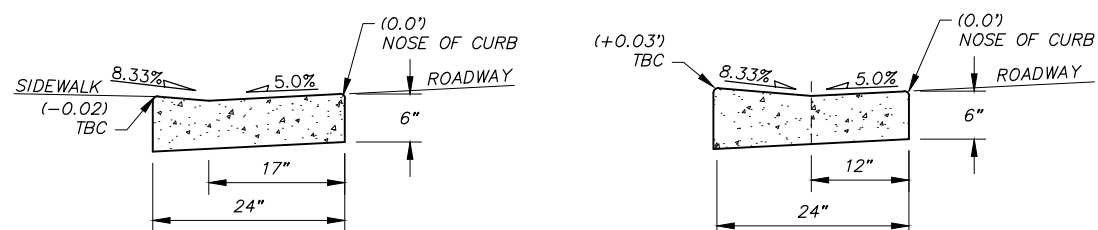
ROADWAY SUMMARY TABLES

SCALE	HOR. N/A	GRID SW1638, SW1738		T6 of T6
	VER. N/A	DATE SEPT 2019	STATUS 65%	



**TYPICAL PARALLEL CURB RAMP AT
CORNER LOCATION WITH CONNECTING
SIDE STREET SIDEWALK - PLAN VIEW**

SCALE: NTS



PCC CURB AND GUTTER TYPE 1A
FOR USE IN CURB RAMPS WITH TYPE 1 C&G.

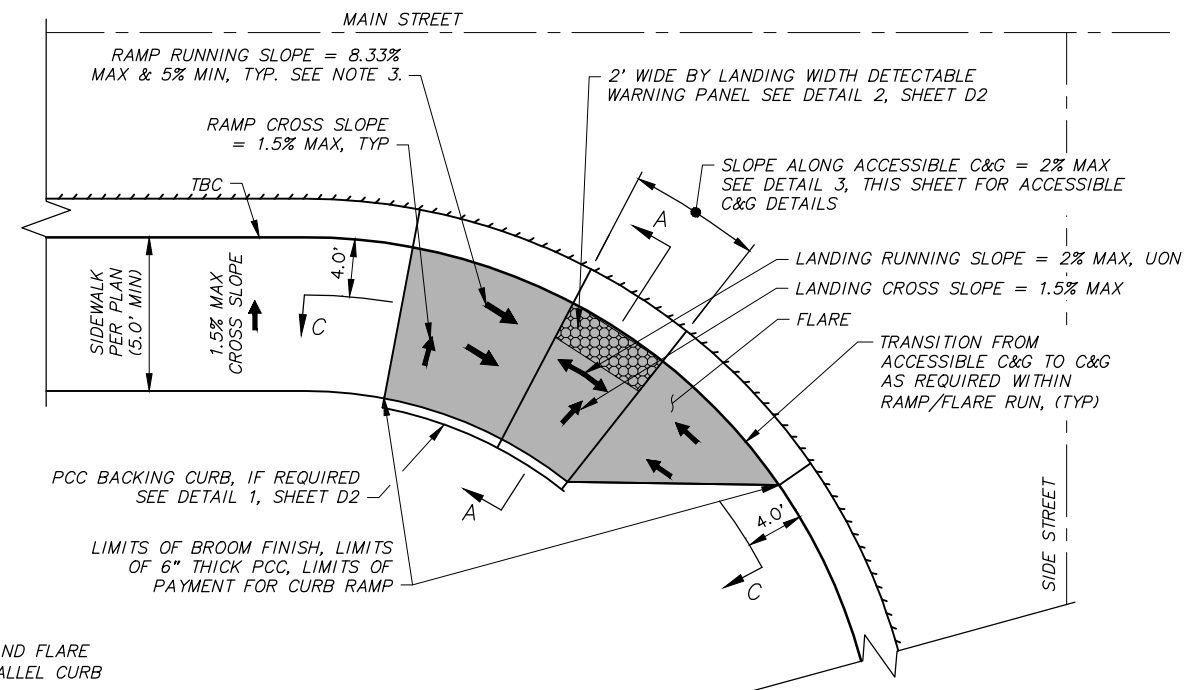
PCC CURB AND GUTTER TYPE 2A
FOR USE IN CURB RAMPS WITH TYPE 2 C&G
OR AS INDICATED ON THE PLANS.

ACCESSIBLE CURB & GUTTER NOTES:

1. TRANSITION CURBS TO MAINTAIN CONSTANT FLOWLINE ACROSS CURB RAMP AND AROUND CURB RETURN IAW PLANS.
2. PAYMENT FOR ALL PCC CURB AND GUTTER, INCLUDING MODIFIED AND TRANSITIONAL CURB, SHALL BE PAID UNDER THE BID ITEM "PCC CURB & GUTTER (ALL TYPES)" AND NO SEPARATE PAYMENT SHALL BE MADE.

ACCESSIBLE CURB & GUTTER SECTIONS (TYPE 1A & TYPE 2A)

SCALE: NTS

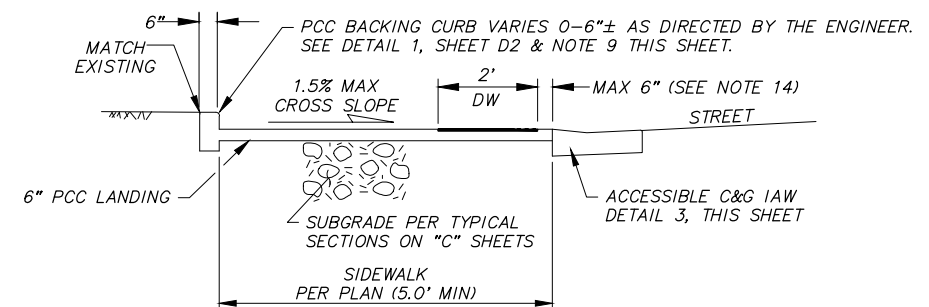


**TYPICAL PARALLEL CURB RAMP AT
CORNER LOCATION WITHOUT CONNECTING
SIDE STREET SIDEWALK - PLAN VIEW**

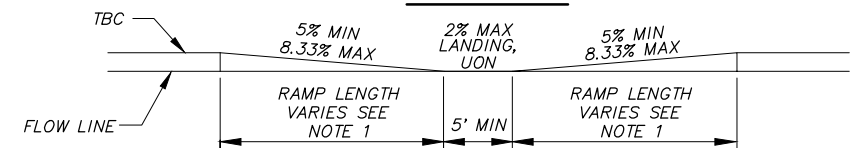
SCALE: NTS

- SHEET NOTES:

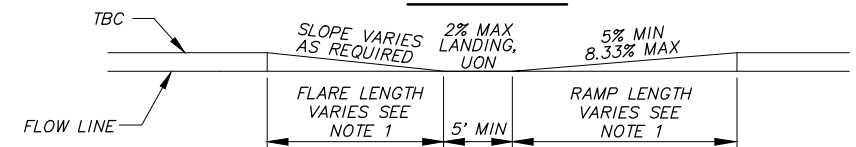
1. SEE SHEETS R10-R11 FOR CURB RAMP LOCATIONS, RAMP, LANDING AND FLARE LENGTHS AND ELEVATIONS. RAMP/FLARE/LANDING LENGTH FOR PARALLEL CURB RAMPS SHALL BE AS MEASURED 4' OFF BACK OF CURB.
2. NOTIFY ENGINEER PRIOR TO INSTALLATION OF CONCRETE IF MAXIMUM/MINIMUM SLOPES CANNOT BE MAINTAINED.
3. FOR PARALLEL CURB RAMPS, RAMPS SHALL BE 15 FEET MAXIMUM. RAMPS SHALL HAVE THE OUTSIDE EDGES AND JOINTS TRIMMED WITH A 1/4-INCH RADIUS EDGING TOOL.
4. ALL SLOPES ARE IN REFERENCE TO THE HORIZONTAL.
5. MINIMUM FLOWLINE SLOPE IN CURB RETURN IS 0.5%.
6. PROVIDE CONSTANT FLOWLINE BETWEEN CHANGE IN CURB TYPE.
7. CONSTRUCT SIDEWALK ADJACENT TO CURB RAMP PER THE TYPICAL SECTIONS SHOWN ON THE "C" SHEETS.
8. PAYMENT FOR ALL PCC CURB AND GUTTER, INCLUDING MODIFIED AND TRANSITIONAL CURB, SHALL BE PAID UNDER THE BID ITEM "P.C.C. CURB & GUTTER (ALL TYPES)" AND NO SEPARATE PAYMENT SHALL BE MADE.
9. FORM BACKING CURB AS DIRECTED BY THE ENGINEER TO MATCH EXISTING GROUND. PAYMENT FOR THIS CURB SHALL BE MADE UNDER THE BID ITEM "P.C.C. CURB RAMP (6" THICK)" AND NO ADDITIONAL PAYMENT SHALL BE MADE. IF EXISTING GROUND BEHIND SIDEWALK IS GRAVEL OR GRASS, GRADE TO MATCH EXISTING GROUND. PAYMENT FOR GRADING SHALL BE MADE UNDER THE BID ITEM "P.C.C. CURB RAMP (6" THICK)" AND NO ADDITIONAL PAYMENT SHALL BE MADE. 4" TOPSOIL AND SEEDING SHALL BE PLACED ON DISTURBED GRASS AREAS PER THE LANDSCAPING PLANS.
10. CONSTRUCT RAMPS AND LANDINGS WITH A BROOM FINISH RUNNING PERPENDICULAR TO THE DIRECTION OF TRAVEL.
11. INSTALL YELLOW ADA APPROVED DETECTABLE WARNINGS (DW) PANELS UNLESS OTHERWISE NOTED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND THESE DRAWINGS. SET DETECTABLE WARNINGS SO THAT THE FIELD AREA AT THE BASE OF THE DOMES IS FLUSH WITH THE SURROUNDING CONCRETE. THERE SHALL BE NO LIP AT THE EDGE OF THE DETECTABLE CURB WARNINGS. SEE DETAIL 2, SHEET D2.
12. DETECTABLE WARNINGS DOMES AT PARALLEL CURB RAMPS SHALL BE ALIGNED ON A SQUARE GRID IN THE PREDOMINATE DIRECTION OF TRAVEL TO PERMIT WHEELS TO ROLL BETWEEN DOMES.
13. RAMP LOCATIONS MAY BE ADJUSTED TO ENSURE MINIMUM 48" CLEARANCE AROUND APPURTENANCES SUCH AS SIGNAL POLES, POWER POLES, LIGHT POLES, J-BOXES, SIGNS, CATCH BASINS AND MANHOLES. PRIOR TO PLACEMENT OF CONCRETE AND APPURTENANCES, THE RAMP LAYOUT AND LOCATION SHALL BE APPROVED BY THE ENGINEER.
14. GAP BETWEEN DETECTABLE WARNING PANELS AND BACK OF CURB ONLY ALLOWABLE AT CENTER OF CURB RAMPS. CORNERS OF DETECTABLE WARNINGS SHALL BE FLUSH WITH BACK OF CURB. IF REQUIRED BY THE ENGINEER CONTRACTOR SHALL CUT DETECTABLE WARNING PANELS PER THE MANUFACTURER'S RECOMMENDATIONS. CUTTING DW PANELS SHALL BE INCIDENTAL TO 30.04 DETECTABLE WARNINGS PAY ITEM AND NO SEPARATE PAYMENT SHALL BE MADE.



SECTION A-A



SECTION B-B

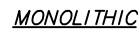


SECTION C-C

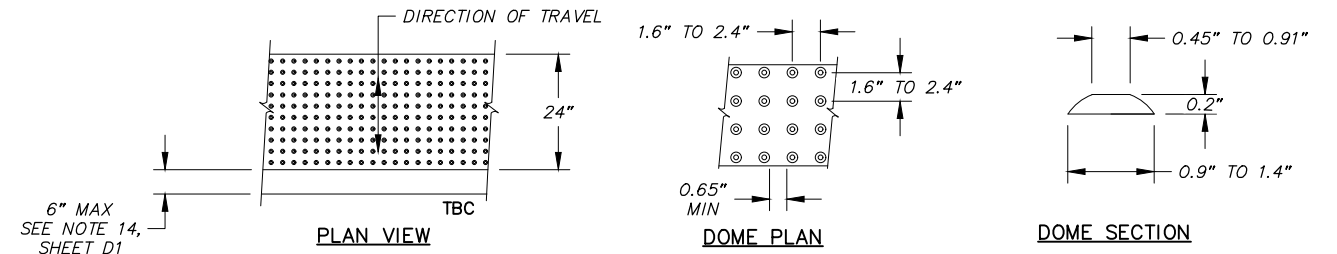
TYPICAL CURB RAMP SECTIONS

SCALE: NTS

RECORD DRAWING																																								PROJECT MANAGEMENT AND ENGINEERING DEPARTMENT																																																											
1. DATA PROVIDED BY: _____ TITLE: _____																																								14-50										IMAGE DRIVE / REFLECTION DRIVE AREA ROAD RECONSTRUCTION - PHASE 2										SCHED A																																							
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1. THE TOP OF BACKING CURB SHALL
TRANSITION BACK TO TOP OF SIDEWALK AT TOP
RAMP SECTION OF CURB RAMP.



DETECTABLE WARNING PANEL

SCALE: NTS

1. ALL SLOPES ARE IN REFERENCE TO THE HORIZONTAL.
2. PAYMENT FOR PCC CURB & GUTTER (ALL TYPES) AND TRANSITION C&G SHALL BE PAID UNDER THE BID ITEM "PCC CURB & GUTTER (ALL TYPES)" AND NO SEPARATE PAYMENT SHALL BE MADE.
3. CENTER THE PROPOSED DRIVEWAY ENTRANCES ON DRIVEWAY CENTERLINE REFERENCE POINT AS SHOWN IN THE 20.28 RECONSTRUCT DRIVEWAY SUMMARY TABLES PROVIDED ON THE ROADWAY SUMMARY TABLE "T" SHEETS.
4. INCREASE SIDEWALK THICKNESS TO 6" ACROSS ALL DRIVEWAYS AND IN BETWEEN DRIVEWAYS THAT ARE WITHIN 5 FEET OF ADJACENT DRIVEWAYS & INSTALL WELDED WIRE MESH PER THE SPECIFICATIONS.
5. SEE 20.28 DRIVEWAY RECONSTRUCTION SUMMARY TABLES ON THE ROADWAY SUMMARY TABLE "T" AND DRIVEWAY RECONSTRUCTION DETAILS, FOR INDIVIDUAL DRIVEWAY SPECIFICS.

 LIMITS OF 2" AC PAVING (CLASS E) FOR DRIVEWAY

 LIMITS OF PCC SIDEWALK (6" THICK, STANDARD FINISH), SEE NOTE 4



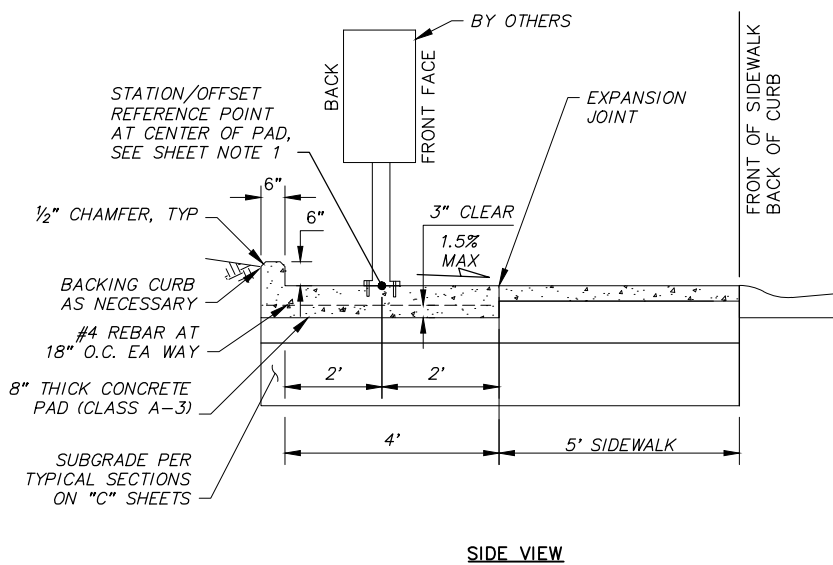
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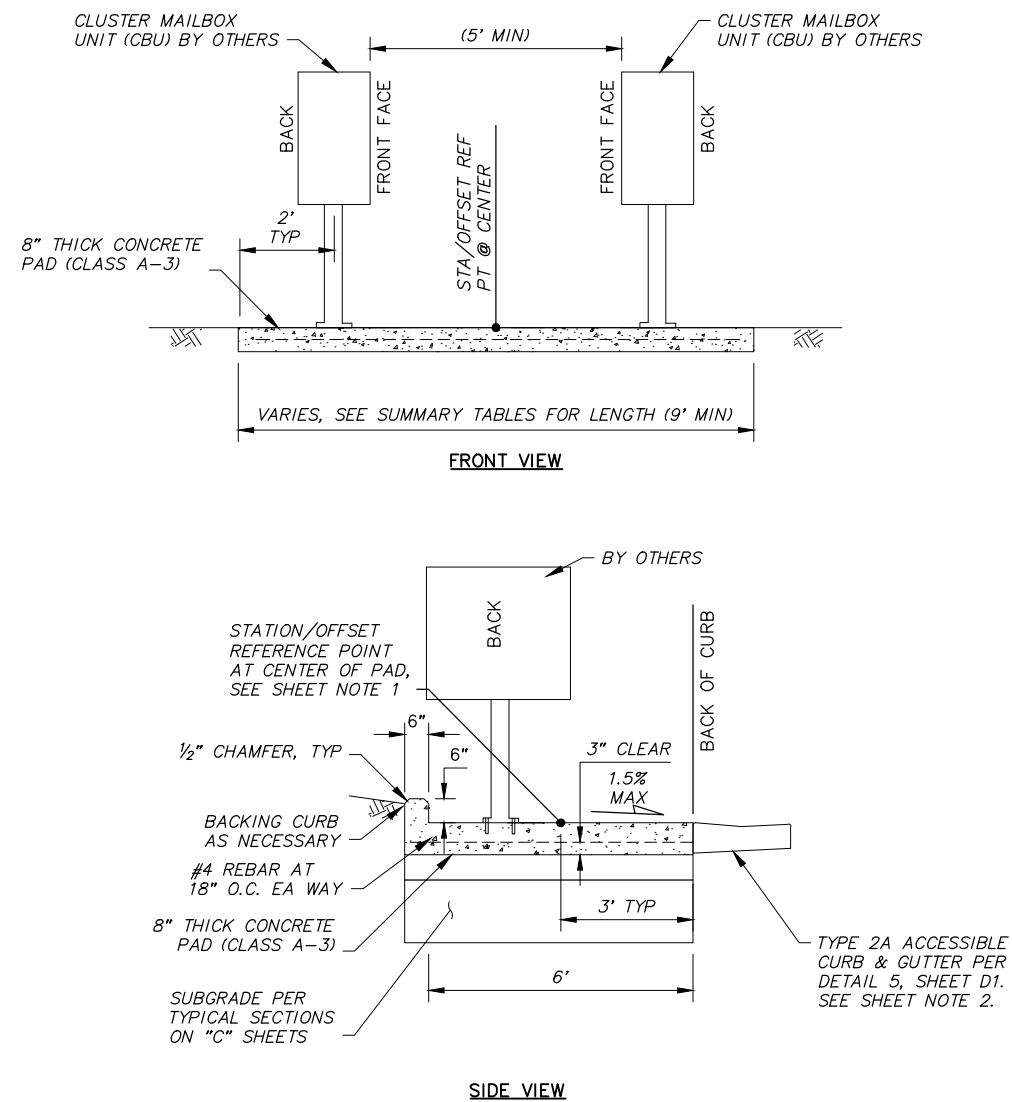
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1. SEE "RELOCATE CLUSTER MAILBOX UNIT" TABLE, DEMOLITION SHEETS & ROADWAY SHEETS FOR LOCATING MAILBOXES ALONG ROADWAY. LOCATIONS ARE APPROXIMATE, VERIFY LOCATION WITH ENGINEER PRIOR TO INSTALLATION.
2. INSTALL TYPE 2A ACCESSIBLE CURB & GUTTER ALONG LENGTH OF PCC CLUSTER MAILBOX BASE, TRANSITION TO TYPE 2 CURB AND GUTTER OVER 4 FEET.



SCALE: NTS



SCALE: NTS

RECORD DRAWING

1. DATA PROVIDED BY: _____ TITLE: _____

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CONTRACTOR: _____

BY: _____ TITLE: _____ DATE: _____

2. DATA TRANSFERRED BY: _____ TITLE: _____

COMPANY: _____ DATE: _____

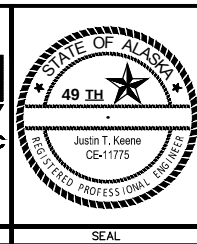
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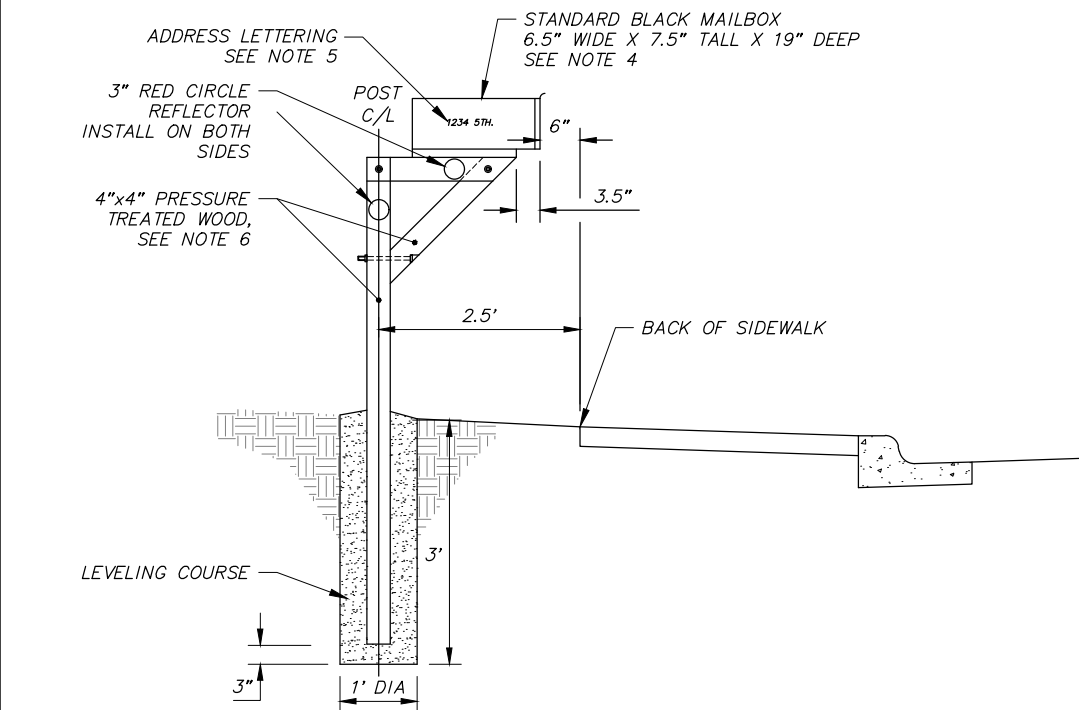
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BY: _____

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TOPOGRAPHY	TS	MJ									
PROFILE	RB	JK	FIELD BOOKS		BM NO.	LOCATION	ELEV.	REV	DATE	DESCRIPTION	BY
STORM SEWER	MV	JK	DESIGN CRW Books 147, 148, & 151		GAAB 66	See page D-24 of the MOA Benchmark Book	238.10				
WATER/SANITARY SEWER	MV	JK			GAAB 96	See page D-26 of the MOA Benchmark Book	313.63				
GAS	MV	JK	STAKING								
TELEPHONE	MV	JK									
ELECTRIC	TK	BM									
DESIGN	RB	JK	ASBUILT								
QUANTITIES	RB	JK	CONTRACTOR		BASIS OF THIS DATUM GAAB 1972 ADJUST						
PRELIMINARY/FINAL	RB	JK	INSPECTOR								
MUNICIPAL/STATE	RB	JK									
PLAN CHECK			CONSTRUCTION RECORD				VERTICAL DATUM			REVISIONS	



PROJECT MANAGEMENT AND ENGINEERING DEPARTMENT			
14-50	IMAGE DRIVE / REFLECTION DRIVE AREA ROAD RECONSTRUCTION - PHASE 2		SCHED A
ROADWAY DETAILS			
PCC CLUSTER MAILBOX BASE DETAILS			
SCALE	HOR. N/A VER. N/A	GRID SW1638, SW1738 DATE SEPT 2019	D4 of D6
		STATUS 65%	SHEET



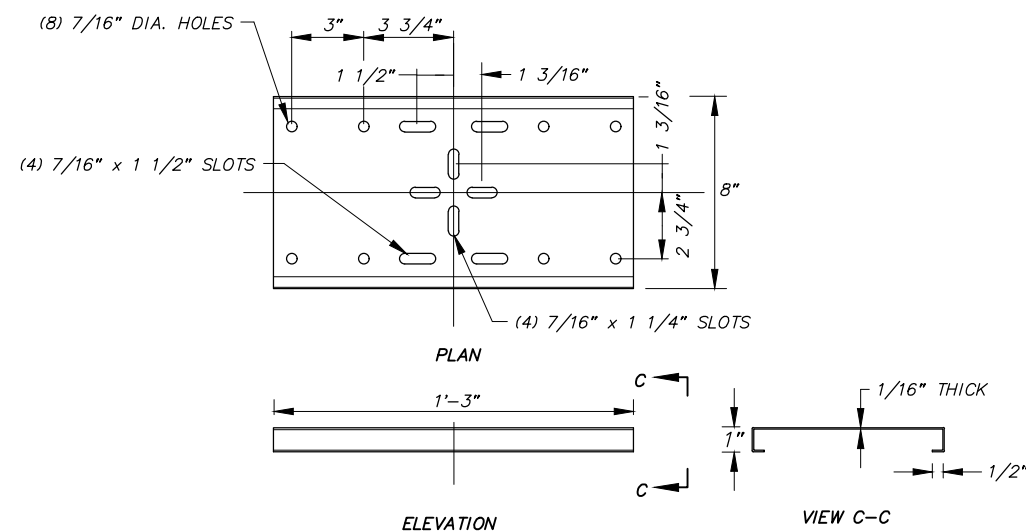
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2

1. INSTALL THE GROUP METAL POST MAILBOXES IN SAME LOCATION FROM CURB & GUTTER, SIDEWALK AND PAVEMENT AS SHOWN IN DETAIL 1, THIS SHEET.

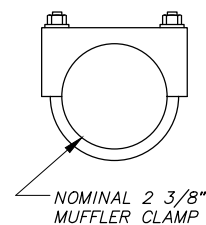
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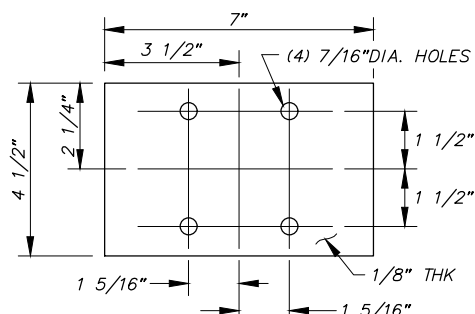
STEEL SHELF BRACKET

SCALE: NTS



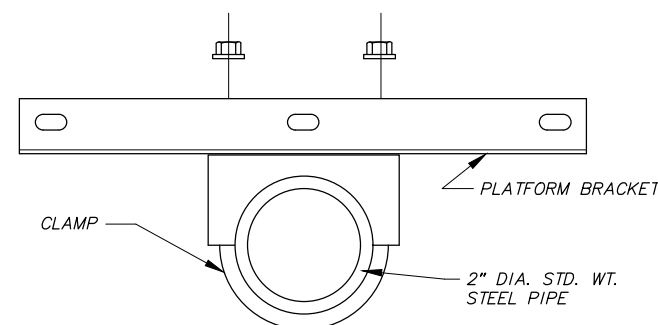
CLAMP

SCALE: NTS



MULTIPLE BOX CLAMP ASSEMBLY DETAIL

SCALE: NTS



STEEL PLATFORM BRACKET

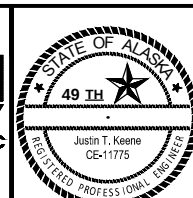
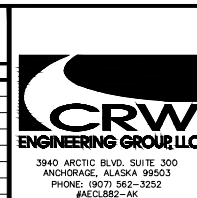
STEEL SHELF BRACKET
(DOUBLE BOX INSTALLATION ONLY)

SCALE: NTS

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PROFILE	RB	JK
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GAS	MV	JK
TELEPHONE	MV	JK
ELECTRIC	TK	BM
DESIGN	RB	JK
QUANTITIES	RB	JK
PRELIMINARY/FINAL	RB	JK
MUNICIPAL/STATE	RB	JK

FIELD BOOKS	BM NO.	LOCATION	ELEV.	REV	DATE	DESCRIPTION	BY
DESIGN CRW Books 147, 148, & 151	GAAB 66	See page D-24 of the MOA Benchmark Book	238.10				
	GAAB 96	See page D-26 of the MOA Benchmark Book	313.83				
STAKING							
ASBUILT							
CONTRACTOR	BASIS OF THIS DATUM GAAB 1972 ADJUST						
INSPECTOR							
CONSTRUCTION RECORD	VERTICAL DATUM			REVISIONS			



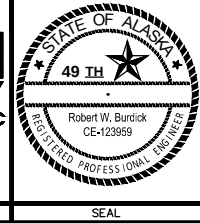
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14-50	IMAGE DRIVE / REFLECTION DRIVE AREA ROAD RECONSTRUCTION - PHASE 2		SCHED A
ROADWAY DETAILS			
MAILBOX DETAILS			
SCALE	HOR. N/A	GRID SW1636, SW1738	D6 of D6
	VER. N/A	DATE SEPT 2019	
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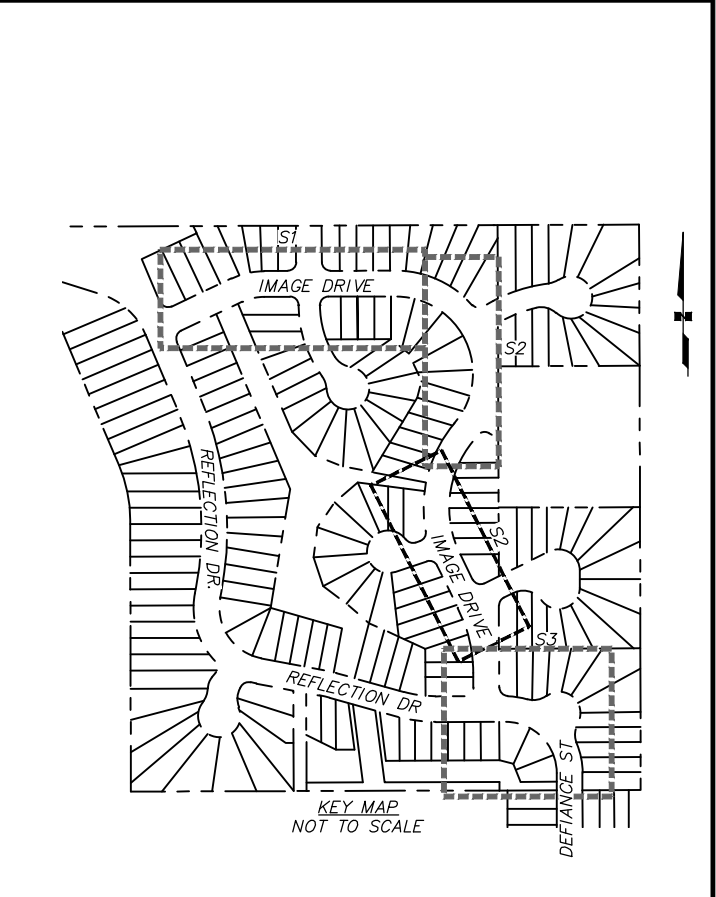
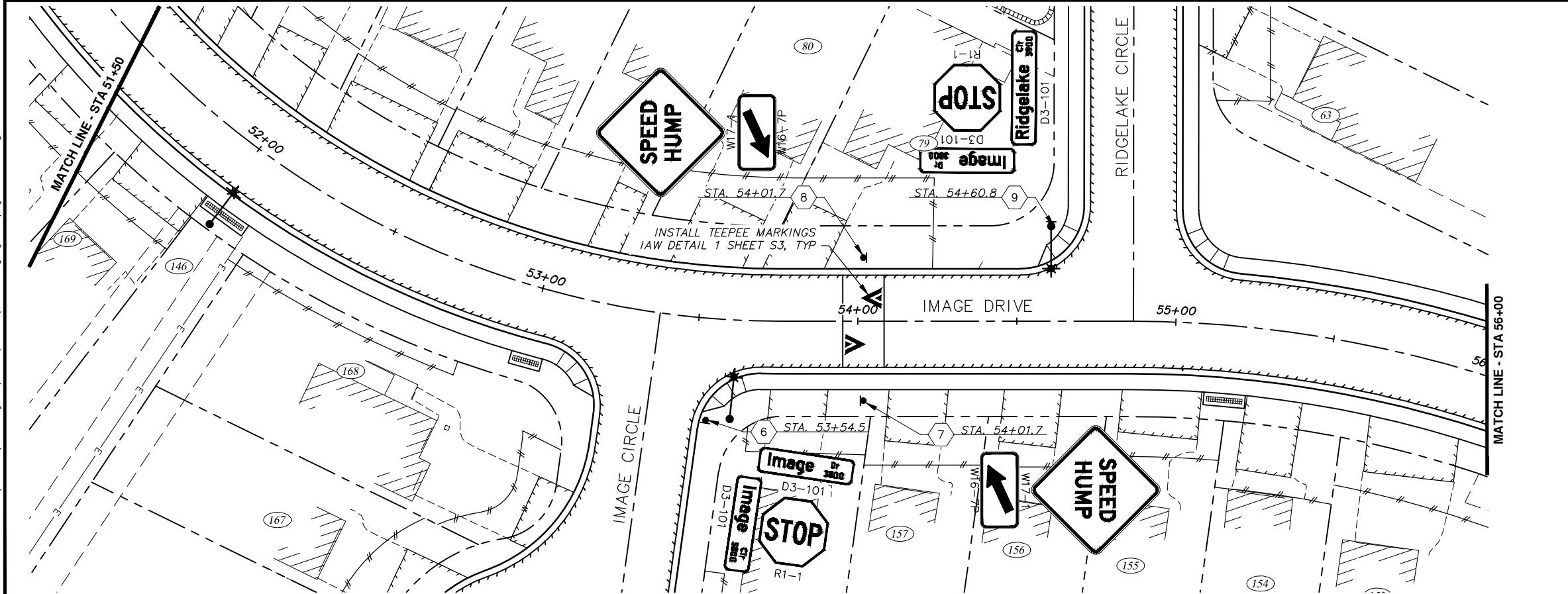
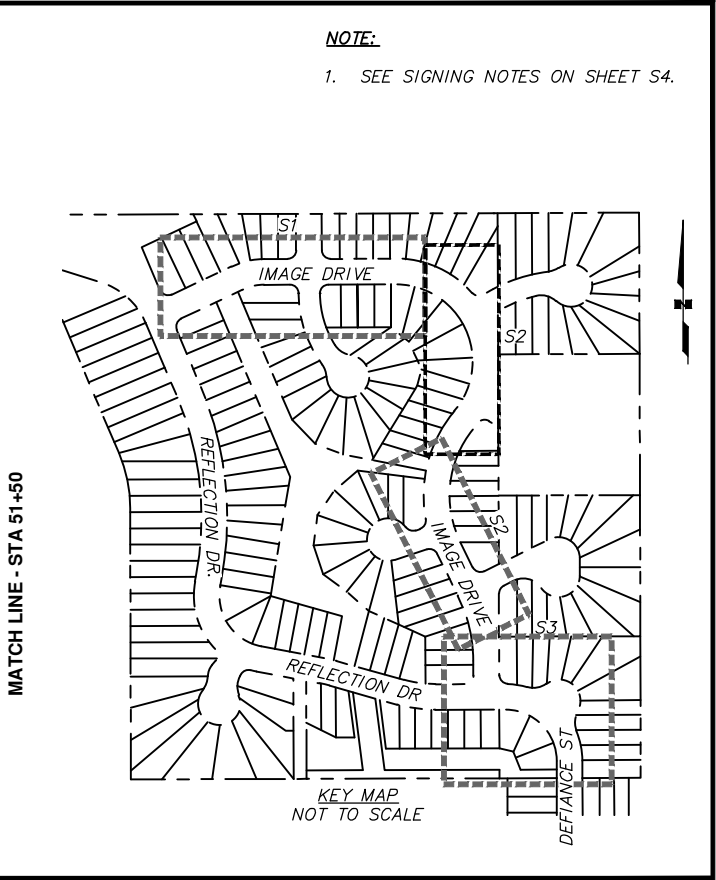
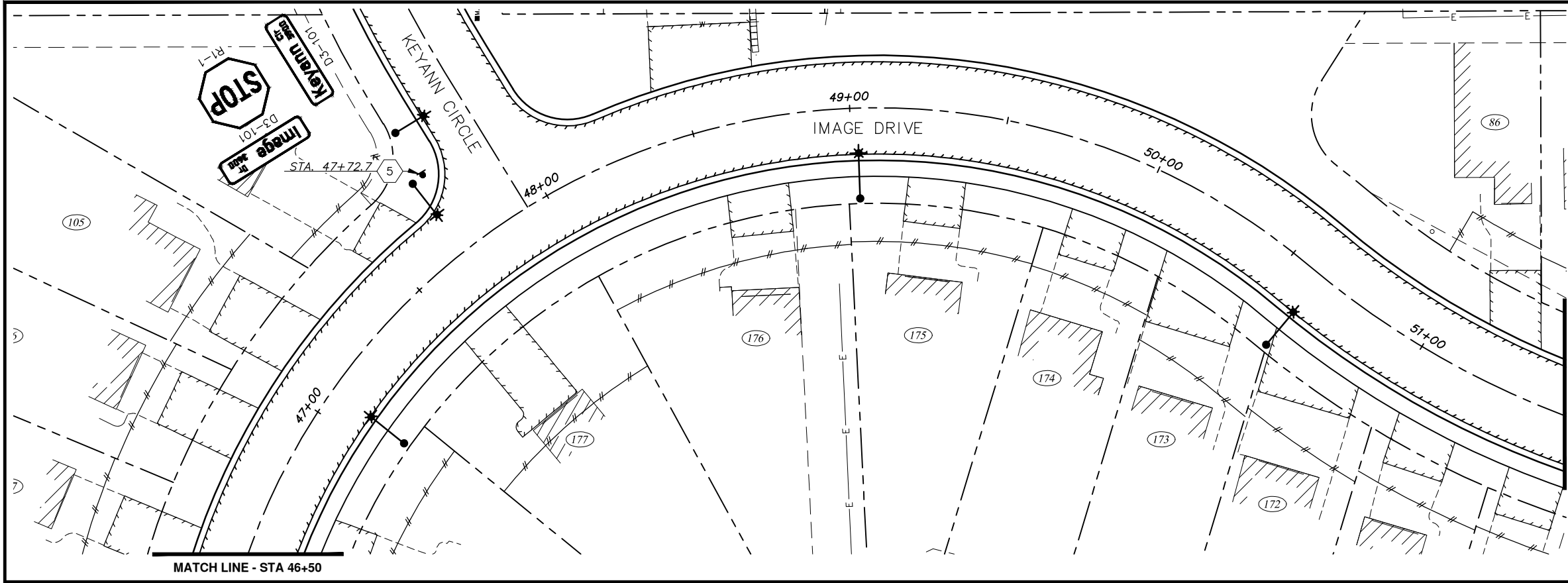
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PLAN CHECK				CONSTRUCTION RECORD				VERTICAL DATUM				REVISIONS	



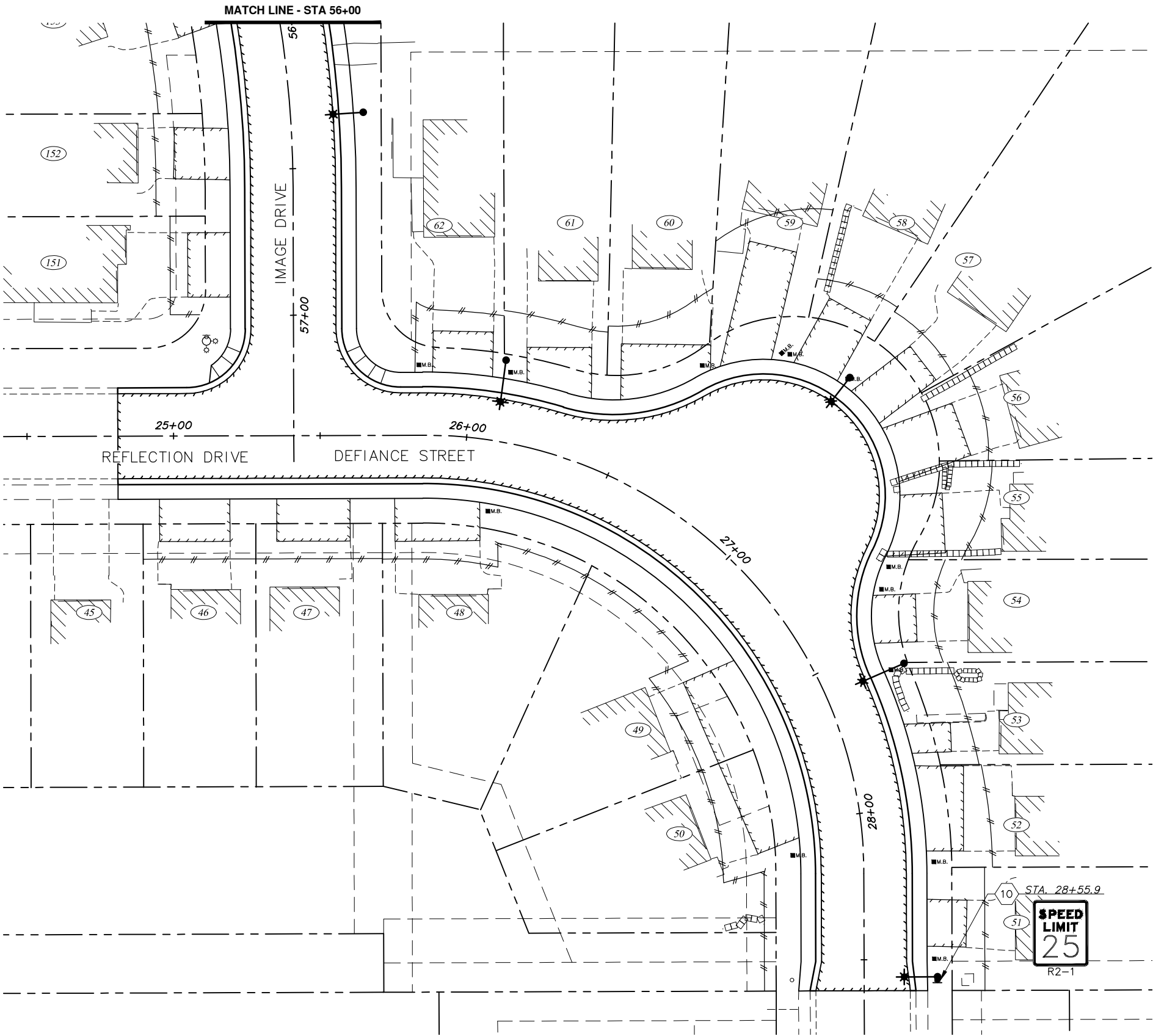
14-50	IMAGE DRIVE / REFLECTION DRIVE AREA ROAD RECONSTRUCTION - PHASE 2		SCHED A
SIGNING & STRIPING			
IMAGE DRIVE - STA 40+00 TO 46+40			
SCALE	HOR. 1"=20' VER. N/A	GRID SW1638, SW1738 DATE SEPT 2019 STATUS 65%	S1 of S4
		SHEET	

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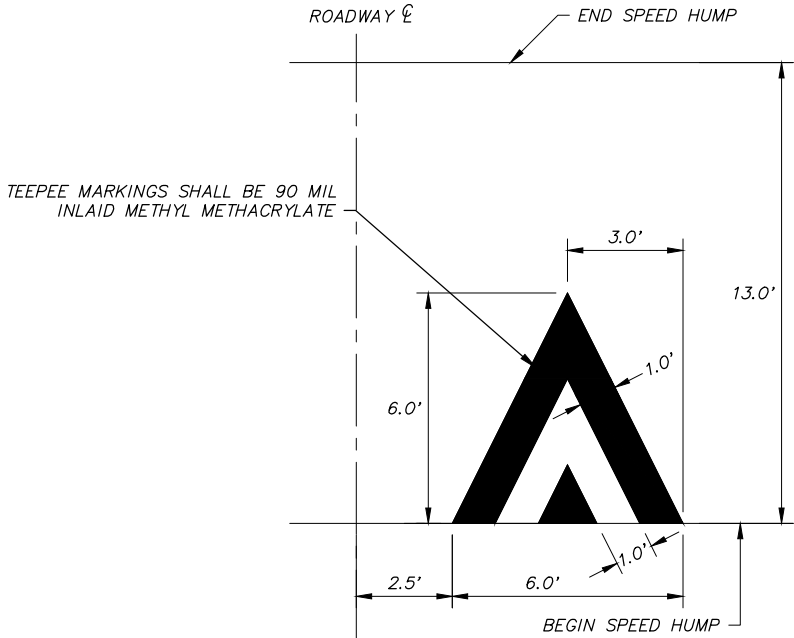


RECORD DRAWING 1. DATA PROVIDED BY: _____ TITLE: _____ THIS WILL SERVE TO CERTIFY THAT THESE RECORD DRAWINGS ARE A TRUE AND ACCURATE REPRESENTATION OF THE PROJECT AS CONSTRUCTED. CONTRACTOR: _____ DATE: _____ BY: _____ 2. DATA TRANSFERRED BY: _____ TITLE: _____ COMPANY: _____ DATE: _____ 3. BASED ON PERIODIC FIELD OBSERVATIONS BY THE ENGINEER (OR AN INDIVIDUAL UNDER HIS/HER DIRECT SUPERVISION), THE CONTRACTOR-PROVIDED DATA APPEARS TO REPRESENT THE PROJECT AS CONSTRUCTED. DATA TRANSFER CHECKED BY: _____ TITLE: _____ COMPANY: _____ DATE: _____ BY: _____		<table><tr><td>DATA</td><td>DRAWN BY</td><td>CHECKED BY</td></tr><tr><td>BASE</td><td>TS</td><td>MJ</td></tr><tr><td>TOPOGRAPHY</td><td>TS</td><td>MJ</td></tr><tr><td>PROFILE</td><td>RB</td><td>JK</td></tr><tr><td>STORM SEWER</td><td>JH</td><td>JK</td></tr><tr><td>WATER/SANITARY SEWER</td><td>MV</td><td>JK</td></tr><tr><td>GAS</td><td>MV</td><td>JK</td></tr><tr><td>TELEPHONE</td><td>MV</td><td>JK</td></tr><tr><td>ELECTRIC</td><td>TK</td><td>BM</td></tr><tr><td>DESIGN</td><td>RB</td><td>JK</td></tr><tr><td>QUANTITIES</td><td>RB</td><td>JK</td></tr><tr><td>PRELIMINARY/FINAL</td><td>RB</td><td>JK</td></tr><tr><td>MUNICIPAL/STATE</td><td>RB</td><td>JK</td></tr></table>	DATA	DRAWN BY	CHECKED BY	BASE	TS	MJ	TOPOGRAPHY	TS	MJ	PROFILE	RB	JK	STORM SEWER	JH	JK	WATER/SANITARY SEWER	MV	JK	GAS	MV	JK	TELEPHONE	MV	JK	ELECTRIC	TK	BM	DESIGN	RB	JK	QUANTITIES	RB	JK	PRELIMINARY/FINAL	RB	JK	MUNICIPAL/STATE	RB	JK	<table><tr><td>FIELD BOOKS</td><td>BM NO.</td><td>LOCATION</td><td>ELEV.</td><td>REV</td><td>DATE</td><td>DESCRIPTION</td><td>BY</td></tr><tr><td>DESIGN CRW Books 147, 148, & 151</td><td>GAAB 66</td><td>See page D-24 of the MOA Benchmark Book</td><td>238.10</td><td></td><td></td><td></td><td></td></tr><tr><td></td><td>GAAB 96</td><td>See page D-26 of the MOA Benchmark Book</td><td>313.83</td><td></td><td></td><td></td><td></td></tr><tr><td>STAKING</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>ASBUILT</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>CONTRACTOR</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>INSPECTOR</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>	FIELD BOOKS	BM NO.	LOCATION	ELEV.	REV	DATE	DESCRIPTION	BY	DESIGN CRW Books 147, 148, & 151	GAAB 66	See page D-24 of the MOA Benchmark Book	238.10						GAAB 96	See page D-26 of the MOA Benchmark Book	313.83					STAKING								ASBUILT								CONTRACTOR								INSPECTOR								<table><tr><td>PLAN CHECK</td><td>CONSTRUCTION RECORD</td><td>VERTICAL DATUM</td><td>REVISIONS</td><td>CONSULTANT</td><td>SEAL</td></tr></table>	PLAN CHECK	CONSTRUCTION RECORD	VERTICAL DATUM	REVISIONS	CONSULTANT	SEAL	<table><tr><td>PROJECT MANAGEMENT AND ENGINEERING DEPARTMENT</td><td>14-50</td><td>IMAGE DRIVE / REFLECTION DRIVE AREA ROAD RECONSTRUCTION - PHASE 2</td><td>SCHED A</td></tr><tr><td colspan="4">SIGNING & STRIPING</td></tr><tr><td colspan="4">IMAGE DRIVE - STA 46+50 TO 56+00</td></tr><tr><td>SCALE HOR. 1"=20'</td><td>GRID SW638, SW738</td><td>DATE SEPT 2019</td><td>STATUS 65%</td></tr><tr><td>VER. N/A</td><td></td><td></td><td>SHEET S2 of S4</td></tr></table>	PROJECT MANAGEMENT AND ENGINEERING DEPARTMENT	14-50	IMAGE DRIVE / REFLECTION DRIVE AREA ROAD RECONSTRUCTION - PHASE 2	SCHED A	SIGNING & STRIPING				IMAGE DRIVE - STA 46+50 TO 56+00				SCALE HOR. 1"=20'	GRID SW638, SW738	DATE SEPT 2019	STATUS 65%	VER. N/A			SHEET S2 of S4
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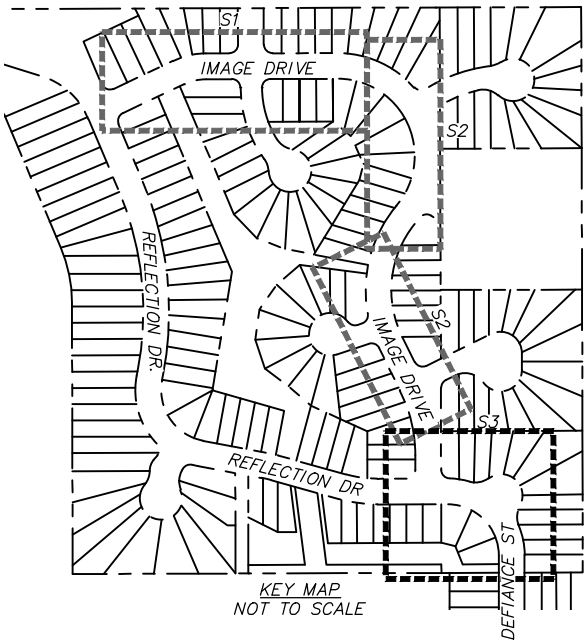
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NOTE:
1. SEE SIGNING NOTES ON SHEET S4.



1 TEEPEE MARKINGS FOR SPEED HUMPS
SCALE: NTS



RECORD DRAWING

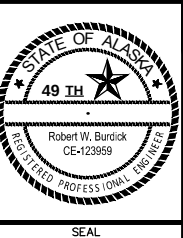
1. DATA PROVIDED BY: _____ TITLE: _____
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BY: _____

2. DATA TRANSFERRED BY: _____ TITLE: _____
COMPANY: _____ DATE: _____

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COMPANY: _____ DATE: _____
BY: _____

DATA	DRAWN BY	CHECKED BY
BASE	TS	MJ
TOPOGRAPHY	TS	MJ
PROFILE	RB	JK
STORM SEWER	JH	JK
WATER/SANITARY SEWER	MV	JK
GAS	MV	JK
TELEPHONE	MV	JK
ELECTRIC	TK	BM
DESIGN	RB	JK
QUANTITIES	RB	JK
PRELIMINARY/FINAL	RB	JK
MUNICIPAL/STATE	RB	JK

GRAPHIC				40	20	0	20	40	SCALE								
FIELD BOOKS				BM NO.		LOCATION		ELEV.		REV		DATE		DESCRIPTION		BY	
DESIGN CRW Books 147, 148, & 151				GAAB 66		See page D-24 of the MOA Benchmark Book		238.10									
				GAAB 96		See page D-26 of the MOA Benchmark Book		313.83									
STAKING																	
ASBUILT																	
CONTRACTOR				BASIS OF THIS DATUM GAAB 1972 ADJUST													
INSPECTOR																	
CONSTRUCTION RECORD				VERTICAL DATUM						REVISIONS							



PROJECT MANAGEMENT AND ENGINEERING DEPARTMENT			
14-50	IMAGE DRIVE / REFLECTION DRIVE AREA ROAD RECONSTRUCTION - PHASE 2		SCHED A
SIGNING & STRIPING			
REFLECTION DRIVE / DEFIANCE STREET STA 56+00 TO EOP			
SCALE HOR. 1"=20'	GRID SW1638, SW1738	DATE SEPT 2019	STATUS 65%
VER. N/A			SHEET S3 of S4

70.11

STANDARD	SIGN
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SHEET	POST NO.	STATION	OFFSET	TYPE	LEGEND	WIDTH (INCHES)	HEIGHT (INCHES)	AREA (SF)	SIGN FACES	SIGN POST	REMARKS
S1	1	43+57.0	30.0 LT	D3-101	IMAGE DR 3600	30	8	1.67	N/S	2.5" PST	ONE DOUBLE SIDED PANEL
				D3-101	MIRAGE CIR 3600	30	8	1.67	E/W		ONE DOUBLE SIDED PANEL
				R1-1	STOP	30	30	6.25	N		
	2	43+96.0	30.0 RT	D3-101	IMAGE DR 3600	30	8	1.67	N/S	2.5" PST	ONE DOUBLE SIDED PANEL
				D3-101	MIRAGE CIR 3600	30	8	1.67	E/W		ONE DOUBLE SIDED PANEL
				R1-1	STOP	30	30	6.25	S		
	3	44+89.1	24.8 LT	W17-1	SPEED HUMP	30	30	6.25	E	MOUNT ON LIGHT POLE	
				W16-7P	ARROW (LEFT)	24	12	2.00	E		
	4	44+90.7	25.0 RT	W17-1	SPEED HUMP	30	30	6.25	W	2.5" PST	
				W16-7P	ARROW (LEFT)	24	12	2.00	W		
S2	5	47+72.7	27.0 LT	D3-101	IMAGE DR 3600	30	8	1.67	NE/SW	2.5" PST	ONE DOUBLE SIDED PANEL
				D3-101	KEYANN CIR 5900	30	8	1.67	NW/SE		ONE DOUBLE SIDED PANEL
				R1-1	STOP	30	30	6.25	NE		
	6	53+54.5	32.0 RT	D3-101	IMAGE DR 3800	30	8	1.67	NE/SW	2.5" PST	ONE DOUBLE SIDED PANEL
				D3-101	IMAGE CIR 5800	30	8	1.67	NW/SE		ONE DOUBLE SIDED PANEL
				R1-1	STOP	30	30	6.25	SW		
	7	54+01.7	25.0 RT	W17-1	SPEED HUMP	30	30	6.25	NW	2.5" PST	
				W16-7P	ARROW (LEFT)	24	12	2.00	NW		
	8	54+01.7	20.0 LT	W17-1	SPEED HUMP	30	30	6.25	SE	2.5" PST	
				W16-7P	ARROW (LEFT)	24	12	2.00	SE		
	9	54+60.8	29.9 LT	D3-101	IMAGE DR 3800	30	8	1.67	NE/SW	MOUNT ON LIGHT POLE	ONE DOUBLE SIDED PANEL
				D3-101	RIDGELAKE CIR 5900	36	8	2.00	NW/SE		ONE DOUBLE SIDED PANEL
				R1-1	STOP	30	30	6.25	NE		
S3	10	28+55.9	25.0 LT	R2-1	SPEED LIMIT 25	24	30	5.00	S	MOUNT ON LIGHT POLE	

SIGNING NOTES:

1. THE STATIONS INDICATED IN THE SIGN SUMMARY ARE APPROXIMATE. INSTALL SIGNS AND SIGN FOUNDATIONS PER MASS STANDARD DETAILS. BEFORE INSTALLING ANY SIGN, STAKE THE LOCATION OF ALL SIGNS FOR THE ENGINEER'S REVIEW AND APPROVAL.
2. PROVIDE PERFORATED STEEL TUBE (PST) SIGN POSTS OF THE SIZE INDICATED IN THE SIGN SUMMARY.
3. INSTALL THE POSTS FOR STOP SIGNS AT LOCATIONS THAT CONFORM TO MASS STANDARD DETAIL 70-18.
4. ALL STOP SIGNS AND STREET NAME SIGNS SHALL REMAIN OPERATIONAL DURING CONSTRUCTION.
5. INSTALL SIGN ON LIGHT POLES PER SEE MASS STANDARD DETAIL 70-30.
6. THE LETTERING FOR STREET NAME SIGNS (D3 SERIES) SHALL BE FEDERAL HIGHWAY ADMINISTRATION "FHWA 2000 SERIES C" LETTERING, A COMBINATION OF LOWER-CASE LETTERS WITH INITIAL UPPER-CASE LETTERS.

RECORD DRAWING

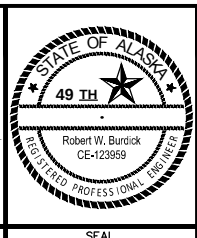
1. DATA PROVIDED BY: _____ TITLE: _____
THIS WILL SERVE TO CERTIFY THAT THESE RECORD DRAWINGS ARE A TRUE AND ACCURATE REPRESENTATION
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CONTRACTOR: _____
BY: _____ TITLE: _____ DATE: _____

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COMPANY: _____ DATE: _____
BY: _____

DATA	DRAWN BY	CHECKED BY
BASE	TS	MJ
TOPOGRAPHY	TS	MJ
PROFILE	RB	JK
STORM SEWER	JH	JK
WATER/SANITARY SEWER	MV	JK
GAS	MV	JK
TELEPHONE	MV	JK
ELECTRIC	TK	BM
DESIGN	RB	JK
QUANTITIES	RB	JK
PRELIMINARY/FINAL	RB	JK
MUNICIPAL/STATE	RB	JK

FIELD BOOKS	BM NO.	LOCATION	ELEV.	REV	DATE	DESCRIPTION	BY	
DESIGN CRW Books 147, 148, & 151	GAAB 66	See page D-24 of the MOA Benchmark Book	238.10					
	GAAB 96	See page D-26 of the MOA Benchmark Book	313.83					
STAKING								
ASBUILT								
CONTRACTOR	BASIS OF THIS DATUM GAAB 1972 ADJUST							
INSPECTOR								
CONSTRUCTION RECORD	VERTICAL DATUM					REVISIONS		



PROJECT MANAGEMENT AND ENGINEERING DEPARTMENT

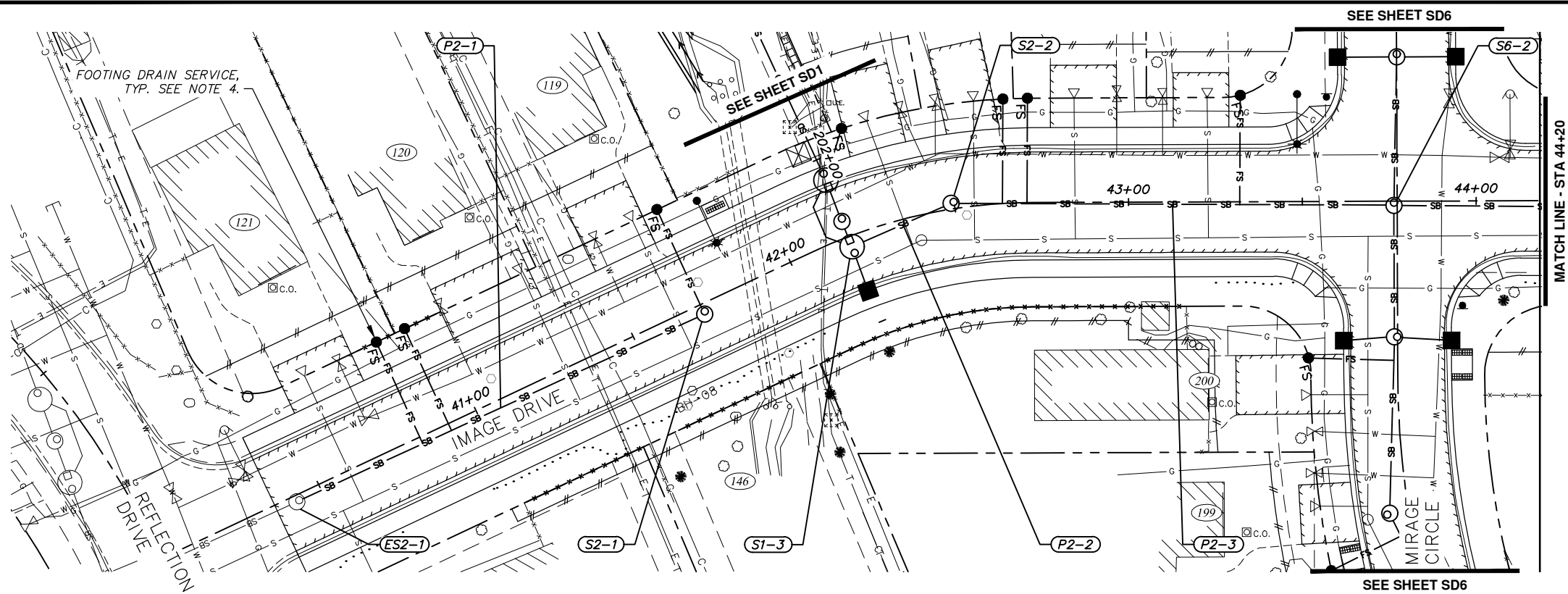
14-50	IMAGE DRIVE / REFLECTION DRIVE AREA ROAD RECONSTRUCTION - PHASE 2	SCHED A
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SIGN SUMMARY TABLES

SCALE HOR. 1"=20'
VER. N/A

GRID SW1638, SW1738	
DATE SEPT 2019	STATUS 65%

SHEET S4 of S4



- NOTES:

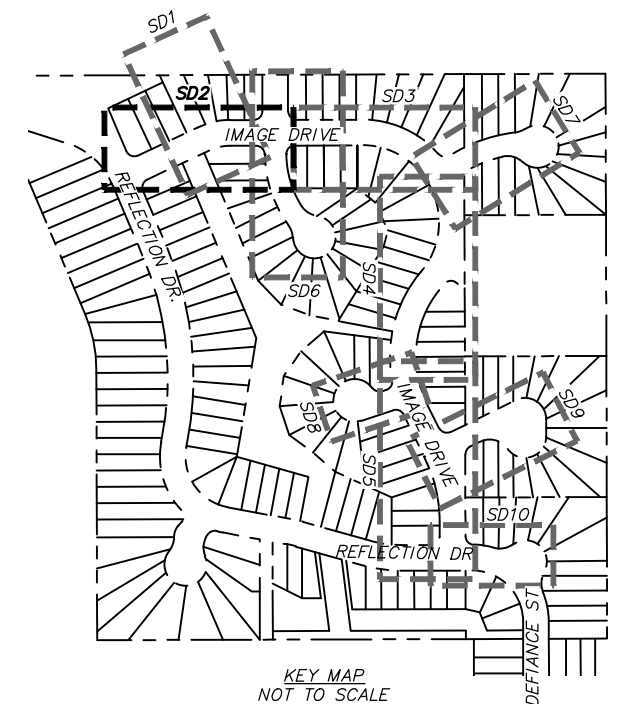
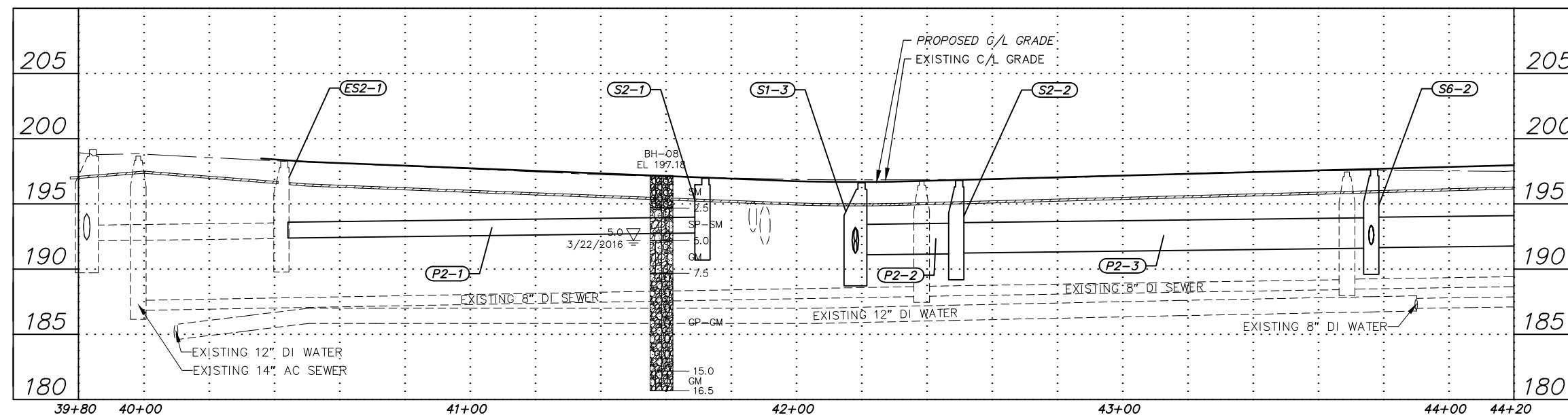
1. AN ASTERISK (*) DENOTES PIPE OR STRUCTURE NOT SHOWN IN PROFILE FOR CLARITY.
2. REFER TO SHEET SD11 FOR GENERAL STORM DRAIN STRUCTURE/PIPE NOTES AND STRUCTURE ABBREVIATIONS USED ON SUMMARY TABLES SHOWN ON THIS SHEET.
3. REFER TO SHEETS SD11--SD13 FOR STORM DRAIN DETAILS.
4. REFER TO SHEET SD14 FOR FOOTING DRAIN SERVICE SUMMARY TABLE.

55.05 & 55.09 – STORM DRAIN STRUCTURES

STRUCTURE ID	TYPE OF STRUCTURE	TYPE OF CASTING	STATION	OFFSET TO STRUCTURE C/L	TOP OF CASTING ELEVATION	CURB TYPE	COMMENTS
ES2-1	CONNECT	MH	40+42.00	1.81' RT	198.29	N/A	
S2-1	MH I	MH	41+71.29	2.97' RT	196.963	N/A	
S2-2	MH I	MH	42+49.10	1.65' LT	196.799	N/A	

55.02 & 55.03 – STORM DRAIN & SUBDRAIN PIPE

PIPE NAME	SIZE (IN.)	PIPE TYPE	LENGTH (FT.)	FROM	TO	INLET ELEVATION	OUTLET ELEVATION	SLOPE
P2-1	12	SP	129.08	S2-1	ES2-1	192.870	192.490	0.30%
P2-2	24	SP	31.08	S2-2	S1-3	191.340	191.260	0.31%
P2-3	24	SP	127.38	S6-2	S2-2	191.760	191.390	0.30%

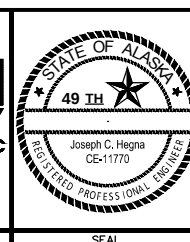
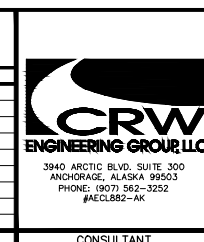


RECORD DRAWING		
1. DATA PROVIDED BY: _____	TITLE: _____	
THIS WILL SERVE TO CERTIFY THAT THESE RECORD DRAWINGS ARE A TRUE AND ACCURATE REPRESENTATION OF THE PROJECT AS CONSTRUCTED.		
CONTRACTOR: _____		
BY: _____	TITLE: _____	DATE: _____
2. DATA TRANSFERRED BY: _____	TITLE: _____	
COMPANY: _____	DATE: _____	
3. BASED ON PERIODIC FIELD OBSERVATIONS BY THE ENGINEER (OR AN INDIVIDUAL UNDER HIS/HER DIRECT SUPERVISION), THE CONTRACTOR-PROVIDED DATA APPEARS TO REPRESENT THE PROJECT AS CONSTRUCTED.		
DATA TRANSFER CHECKED BY: _____	TITLE: _____	
COMPANY: _____	DATE: _____	
BY: _____		

DATA	DRAWN BY	CHECKED BY
BASE	TS	MJ
TOPOGRAPHY	TS	MJ
PROFILE	RB	JK
STORM SEWER	JH	JK
WATER/SANITARY SEWER	MV	JK
GAS	MV	JK
TELEPHONE	MV	JK
ELECTRIC	TK	BM
DESIGN	RB	JK
QUANTITIES	RB	JK
PRELIMINARY/FINAL	RB	JK
MUNICIPAL/STATE	RB	JK

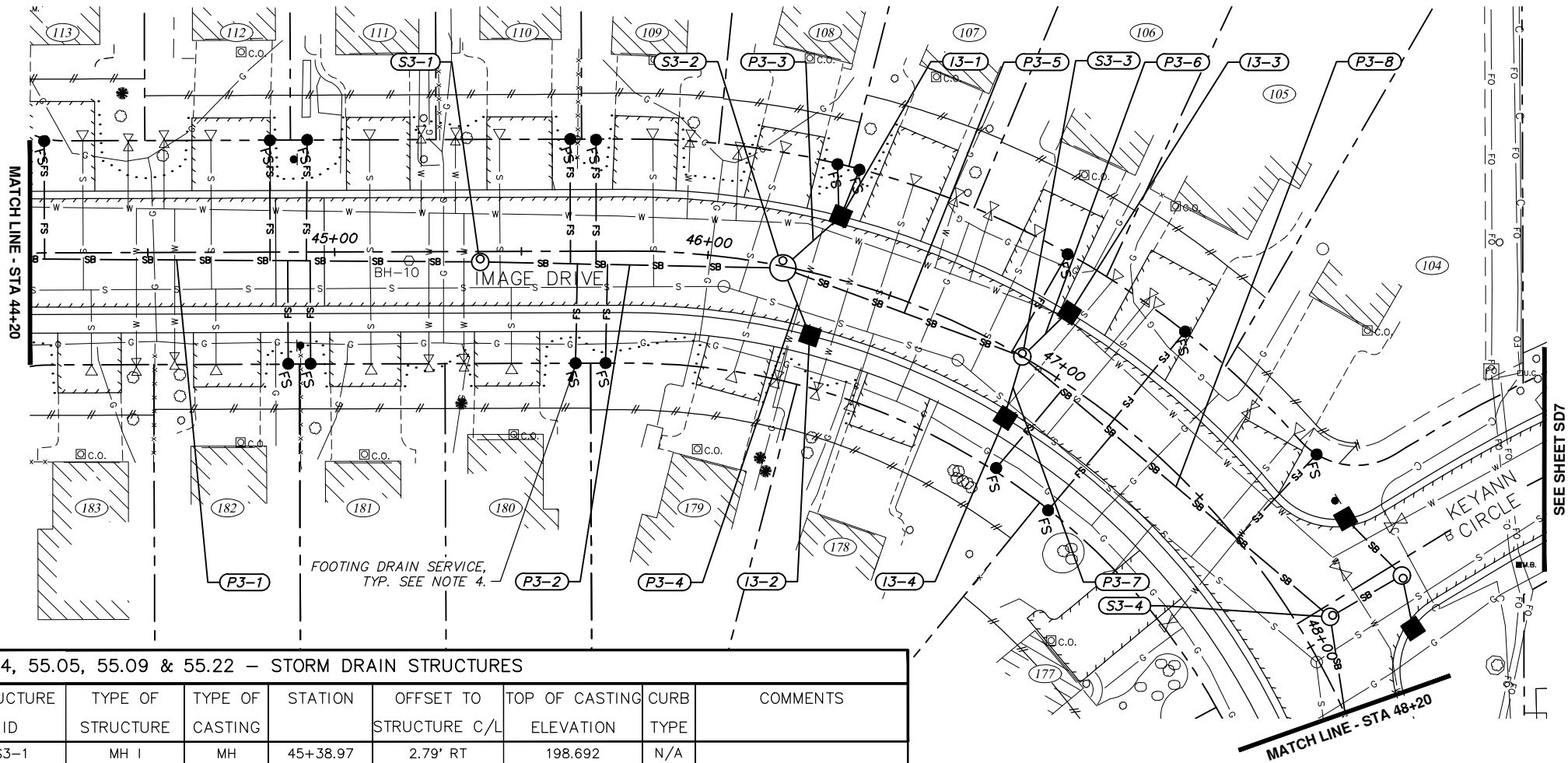
GRAPHIC SCALE

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PROJECT MANAGEMENT AND ENGINEERING DEPARTMENT			
14-50		IMAGE DRIVE / REFLECTION DRIVE AREA ROAD RECONSTRUCTION - PHASE 2	
		SCHD B	
STORM DRAIN PLAN & PROFILE			
IMAGE DRIVE			
SCALE		SD2 of SD14	
HOR. 1"=20'		GRID SW1638, SW1738	
VER. 1"=5'		DATE SEPT 2019	
		STATUS 65%	
		SHEET	

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NOTES:

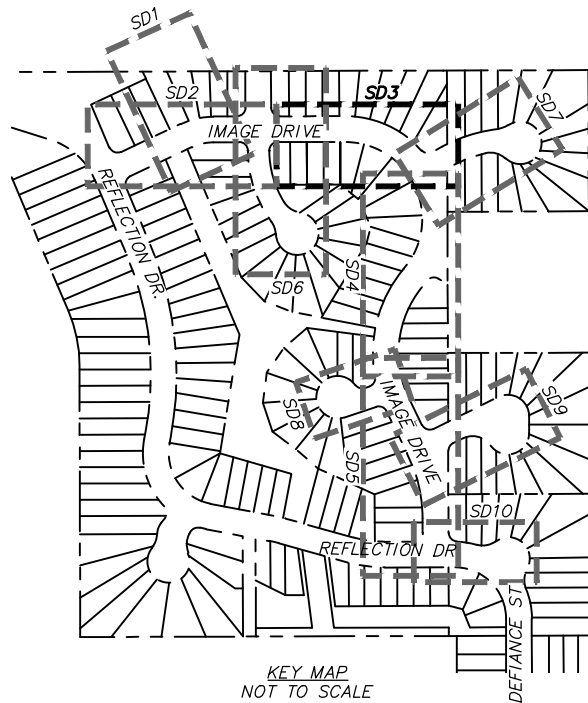
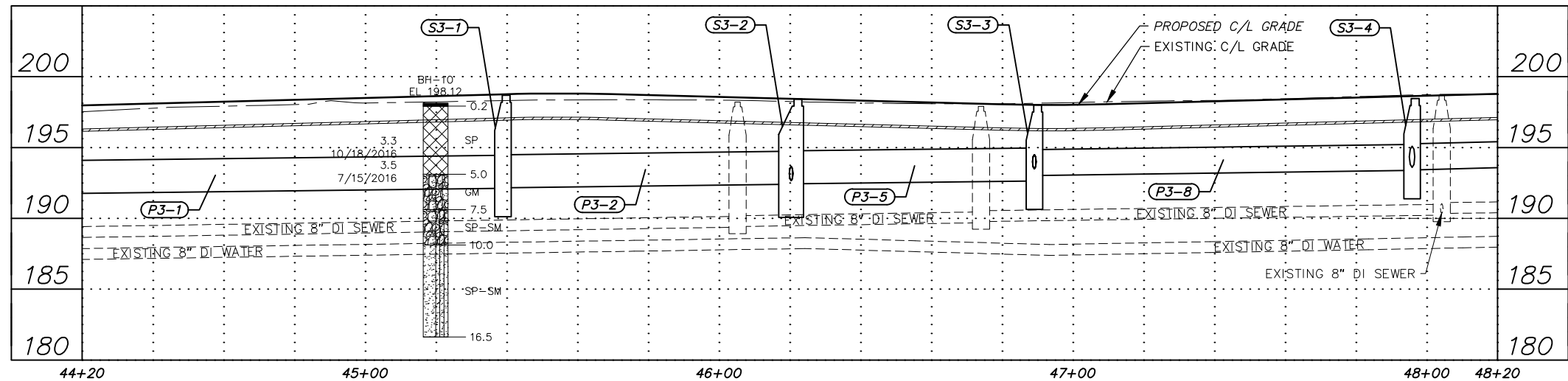
1. AN ASTERISK (*) DENOTES PIPE OR STRUCTURE NOT SHOWN IN PROFILE FOR CLARITY.
2. REFER TO SHEET SD11 FOR GENERAL STORM DRAIN STRUCTURE/PIPE NOTES AND STRUCTURE ABBREVIATIONS USED ON SUMMARY TABLES SHOWN ON THIS SHEET.
3. REFER TO SHEETS SD11-SD13 FOR STORM DRAIN DETAILS.
4. REFER TO SHEET SD14 FOR FOOTING DRAIN SERVICE SUMMARY TABLE.

55.04, 55.05, 55.09 & 55.22 - STORM DRAIN STRUCTURES

STRUCTURE ID	TYPE OF STRUCTURE	TYPE OF CASTING	STATION	OFFSET TO STRUCTURE C/L	TOP OF CASTING ELEVATION	CURB TYPE	COMMENTS
S3-1	MH I	MH	45+38.97	2.79' RT	198.692	N/A	
S3-2	MH II	MH	46+20.39	0.51' RT	198.424	N/A	
S3-3	MH I	MH	46+89.12	0.08' RT	198.013	N/A	
S3-4	MH I	MH	47+95.84	8.48' LT	198.462	N/A	
I3-1	CB	CI	46+32.00	16.50' LT	198.169	2	
I3-2	CB	CI	46+32.00	16.50' RT	198.169	2	
I3-3	CB	CI	46+93.85	16.50' LT	197.889	2	
I3-4	CB	CI	46+93.85	16.50' RT	197.889	2	

55.02 & 55.03 - STORM DRAIN & SUBDRAIN PIPE

PIPE NAME	SIZE (IN.)	PIPE TYPE	LENGTH (FT.)	FROM	TO	INLET ELEVATION	OUTLET ELEVATION	SLOPE
P3-1	24	SP	162.67	S3-1	S6-2	192.280	191.810	0.30%
P3-2	24	SP	81.06	S3-2	S3-1	192.560	192.330	0.30%
P3-3	12	S	19.84	I3-1	S3-2	193.670	192.660	6.38%
P3-4	12	S	18.49	I3-2	S3-2	193.800	192.660	7.87%
P3-5	24	SP	68.33	S3-3	S3-2	192.800	192.610	0.30%
P3-6	12	S	17.32	I3-3	S3-3	193.580	193.500	0.60%
P3-7	12	S	17.06	I3-4	S3-3	193.550	193.500	0.38%
P3-8	18	SP	108.01	S3-4	S3-3	193.550	193.200	0.34%



RECORD DRAWING

1. DATA PROVIDED BY: _____ TITLE: _____

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TOPOGRAPHY	TS	MJ
PROFILE	RB	JK
STORM SEWER	JH	JK
WATER/SANITARY SEWER	MV	JK
GAS	MV	JK
TELEPHONE	MV	JK
ELECTRIC	TK	BM
DESIGN	RB	JK
QUANTITIES	RB	JK
PRELIMINARY/FINAL	RB	JK
MUNICIPAL/STATE	RB	JK

FIELD BOOKS	BM NO.	LOCATION	ELEV.	REV	DATE	DESCRIPTION	BY
DESIGN CRW Books 147, 148, & 151	GAAB 66	See page D-24 of the MOA Benchmark Book	238.10				
	GAAB 96	See page D-26 of the MOA Benchmark Book	313.83				
STAKING							
ASBUILT							
CONTRACTOR							
INSPECTOR							

BASIS OF THIS DATUM GAAB 1972 ADJUST

CRW ENGINEERING GROUP LLC

3940 ARCTIC BLVD, SUITE 300
ANCHORAGE, ALASKA 99503
PHONE: (907) 562-3252
#AEC1882-AK

STATE OF ALASKA

49 TH

Joseph C. Hegna
CE-11770

REGISTERED PROFESSIONAL ENGINEER

MUNICIPALITY OF ANCHORAGE

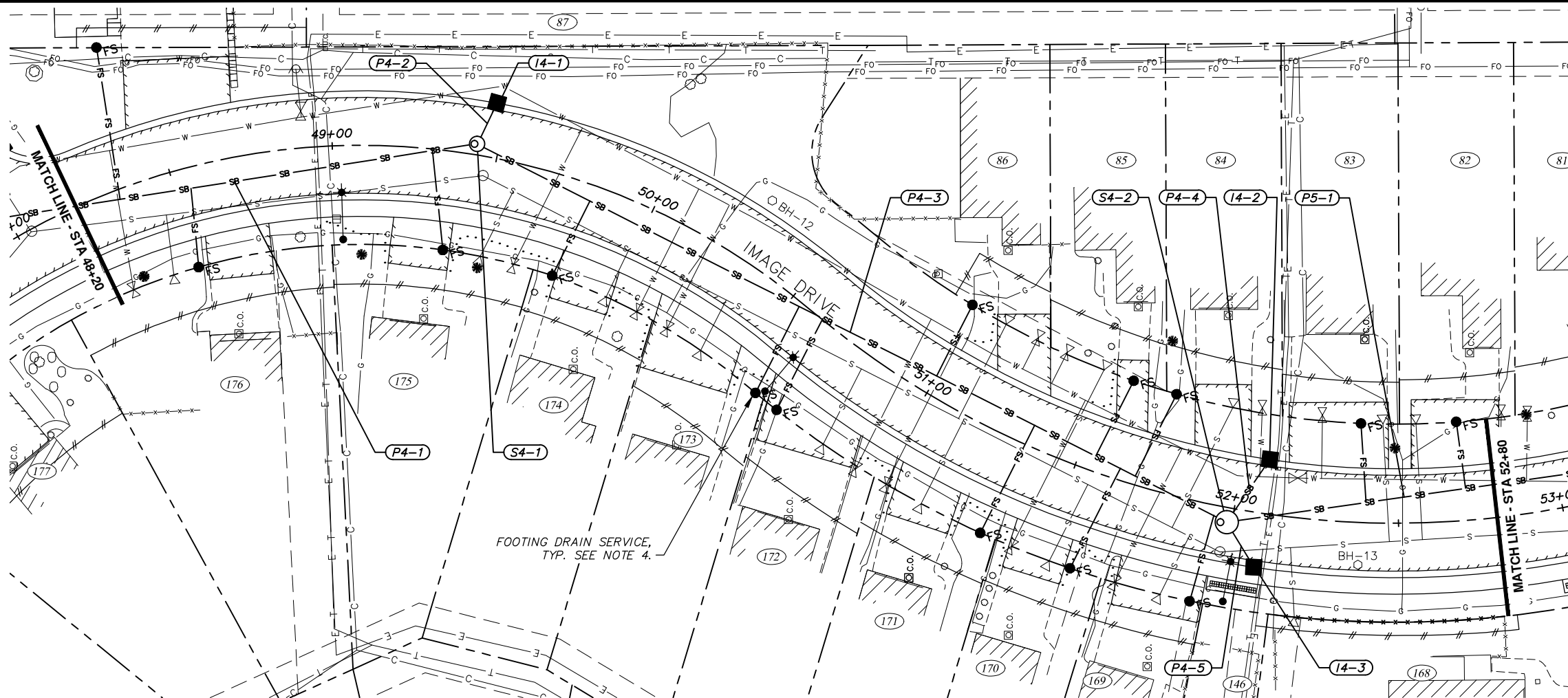
PROJECT MANAGEMENT AND ENGINEERING DEPARTMENT

14-50 IMAGE DRIVE / REFLECTION DRIVE AREA ROAD RECONSTRUCTION - PHASE 2 SCHED B

STORM DRAIN PLAN & PROFILE

IMAGE DRIVE

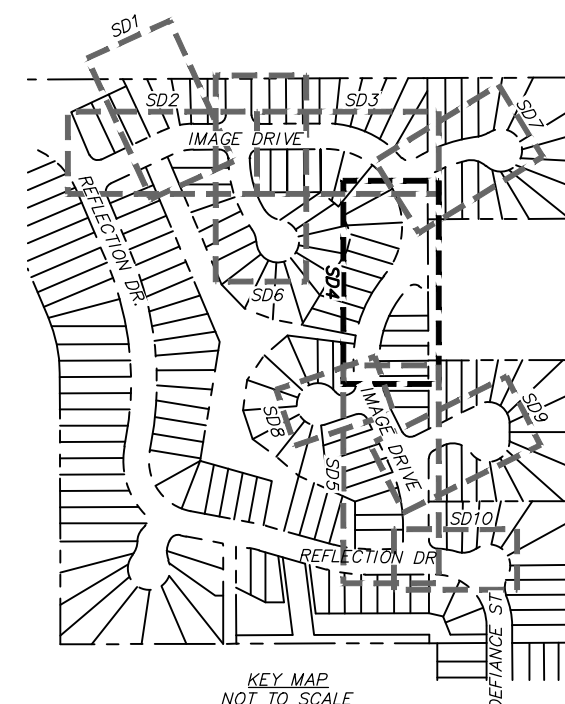
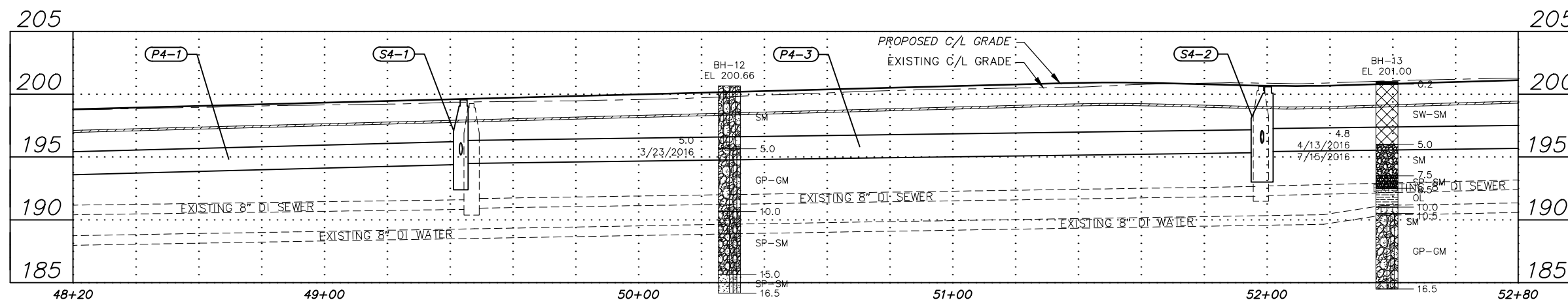
SCALE HOR. 1"=20' VER. 1"=5' GRID SW1638, SW1738 DATE SEPT 2019 STATUS 65% SHEET SD3 of SD14



- NOTES:**
1. AN ASTERISK (*) DENOTES PIPE OR STRUCTURE NOT SHOWN IN PROFILE FOR CLARITY.
 2. REFER TO SHEET SD11 FOR GENERAL STORM DRAIN STRUCTURE/PIPE NOTES AND STRUCTURE ABBREVIATIONS USED ON SUMMARY TABLES SHOWN ON THIS SHEET.
 3. REFER TO SHEETS SD11—SD13 FOR STORM DRAIN DETAILS.
 4. REFER TO SHEET SD14 FOR FOOTING DRAIN SERVICE SUMMARY TABLE.

55.05 & 55.09 – STORM DRAIN STRUCTURES							
STRUCTURE ID	TYPE OF STRUCTURE	TYPE OF CASTING	STATION	OFFSET TO STRUCTURE C/L	TOP OF CASTING ELEVATION	CURB TYPE	COMMENTS
S4-1	MH I	MH	49+43.44	3.25' LT	199.542	N/A	
S4-2	MH II	MH	51+98.52	4.39' RT	200.589	N/A	
I4-1	CB	CI	49+47.11	16.54' LT	199.512	2	
I4-2	CB	CI	52+08.47	16.50' LT	200.534	2	
I4-3	CB	CI	52+08.47	16.50' RT	200.534	2	

55.02 & 55.03 – STORM DRAIN & SUBDRAIN PIPE								
PIPE NAME	SIZE (IN.)	PIPE TYPE	LENGTH (FT.)	FROM	TO	INLET ELEVATION	OUTLET ELEVATION	SLOPE
P4-1	18	SP	148.70	S4-1	S3-4	194.550	193.600	0.66%
P4-2	12	S	13.84	I4-1	S4-1	195.200	195.150	0.51%
P4-3	18	SP	254.24	S4-2	S4-1	195.500	194.650	0.34%
P4-4	12	S	23.04	I4-2	S4-2	196.200	196.100	0.55%
P4-5	12	S	15.91	I4-3	S4-2	196.200	196.100	0.92%

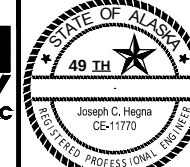


KEY MAP
NOT TO SCALE

RECORD DRAWING	
1. DATA PROVIDED BY: _____	TITLE: _____
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BY: _____	TITLE: _____ DATE: _____
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COMPANY: _____	DATE: _____
BY: _____	

DATA	DRAWN BY	CHECKED BY
BASE	TS	MJ
TOPOGRAPHY	TS	MJ
PROFILE	RB	JK
STORM SEWER	JH	JK
WATER/SANITARY SEWER	MV	JK
GAS	MV	JK
TELEPHONE	MV	JK
ELECTRIC	TK	BM
DESIGN	RB	JK
QUANTITIES	RB	JK
PRELIMINARY/FINAL	RB	JK
MUNICIPAL/STATE	RB	JK

GRAPHIC 40 20 0 20 40 SCALE									
FIELD BOOKS		BM NO.	LOCATION		ELEV.	REV	DATE	DESCRIPTION	B
DESIGN CRW Books 147, 148, & 151		GAAB 66	See page D-24 of the MOA Benchmark Book		238.10				
		GAAB 96	See page D-26 of the MOA Benchmark Book		313.83				
STAKING									
ASBUILT									
CONTRACTOR		BASIS OF THIS DATUM GAAB 1972 ADJUST							
INSPECTOR									
CONSTRUCTION RECORD			VERTICAL DATUM			REVISIONS			



PROJECT MANAGEMENT AND ENGINEERING DEPARTMENT

14-50	IMAGE DRIVE / REFLECTION DRIVE AREA ROAD RECONSTRUCTION - PHASE 2	SCHED E
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STORM DRAIN PLAN & PROFILE

IMAGE DRIVE

SCALE HOR. 1"=20'
VER. 1"=5'

GRID SW1638, SW1738

DATE SEPT 2019

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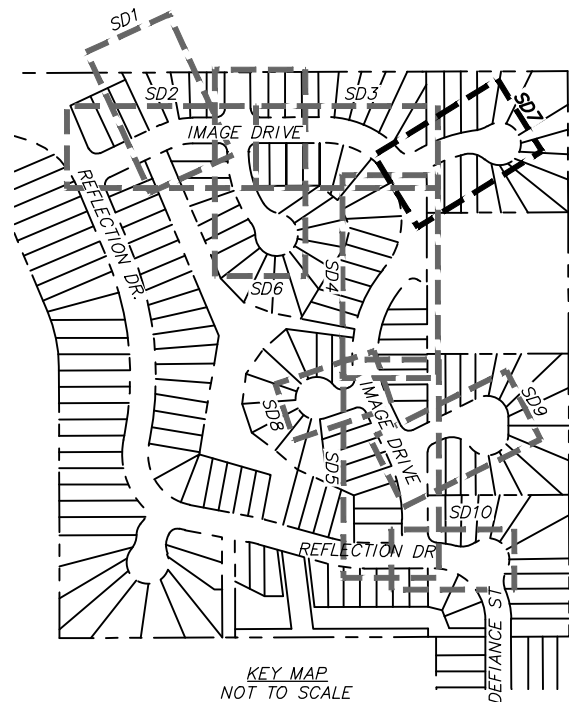
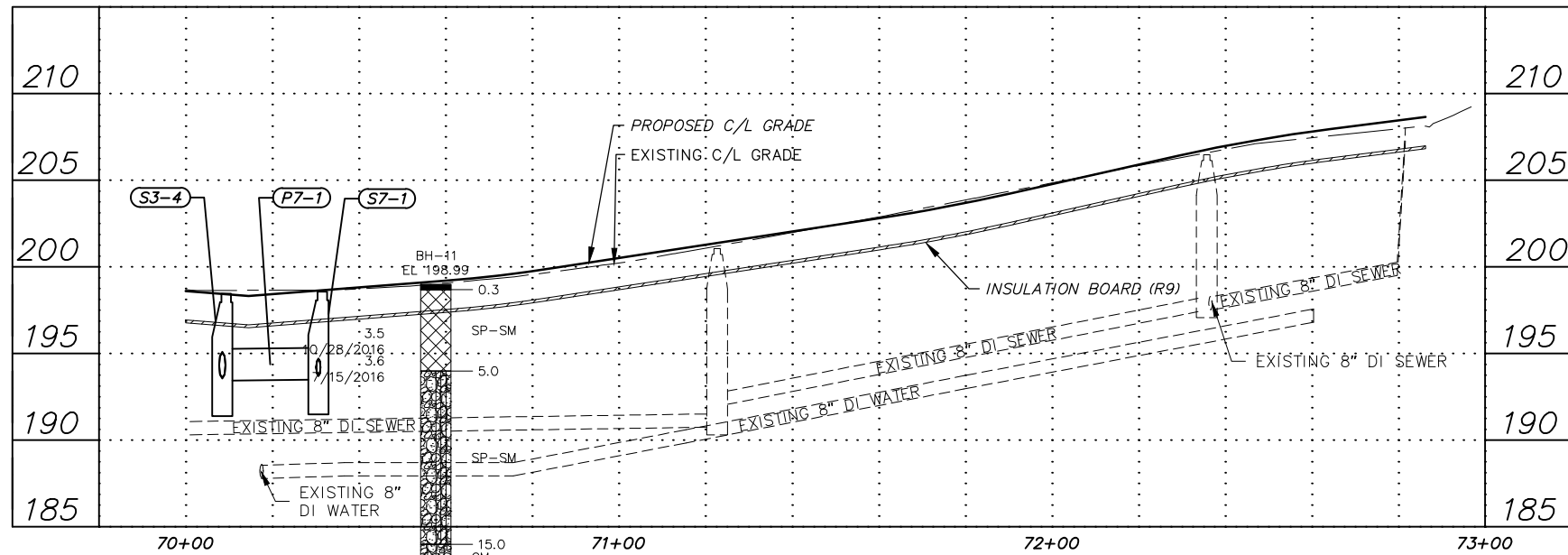
SD4 of SD14 SHEET



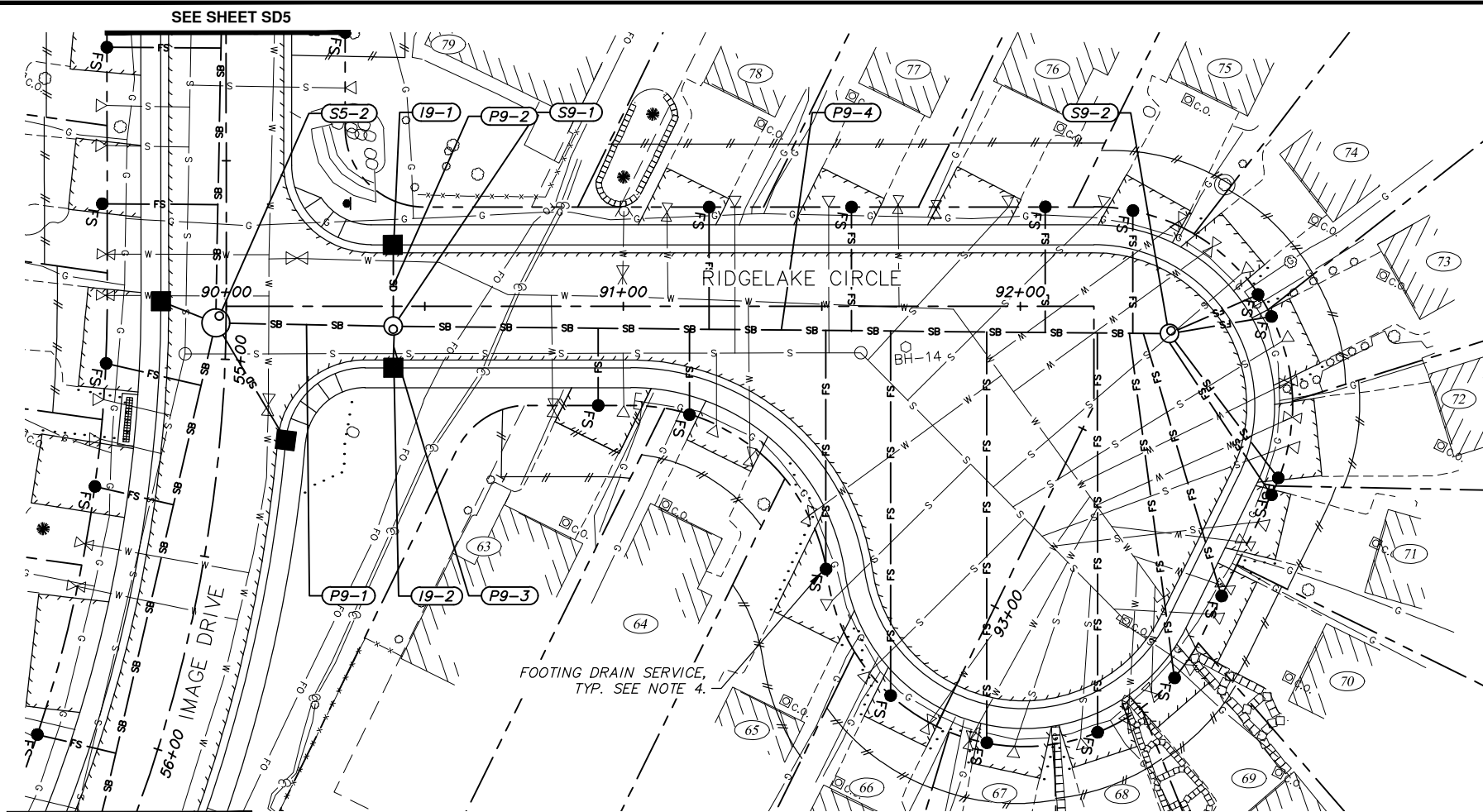
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55.02 & 55.03 – STORM DRAIN & SUBDRAIN PIPE								
PIPE NAME	SIZE (IN.)	PIPE TYPE	LENGTH (FT.)	FROM	TO	INLET ELEVATION	OUTLET ELEVATION	SLOPE
P7-1	18	SP	22.19	S7-1	S3-4	193.660	193.600	0.33%
P7-2	12	SP	21.40	I7-1	S7-1	194.000	193.710	1.67%
P7-3	12	SP	14.50	I7-2	S7-1	194.000	193.710	2.76%

55.05 & 55.09 – STORM DRAIN STRUCTURES							
STRUCTURE ID	TYPE OF STRUCTURE	TYPE OF CASTING	STATION	OFFSET TO STRUCTURE C/L	TOP OF CASTING ELEVATION	CURB TYPE	COMMENTS
S7-1	MH I	MH	70+30.64	3.61' RT	198.566	N/A	
I7-1	CB	CI	70+25.76	17.23' LT	198.495	2	
I7-2	CB	CI	70+25.76	17.26' RT	198.496	2	



RECORD DRAWING 1. DATA PROVIDED BY: _____ TITLE: _____ THIS WILL SERVE TO CERTIFY THAT THESE RECORD DRAWINGS ARE A TRUE AND ACCURATE REPRESENTATION OF THE PROJECT AS CONSTRUCTED. CONTRACTOR: _____ BY: _____ DATE: _____ 2. DATA TRANSFERRED BY: _____ TITLE: _____ COMPANY: _____ DATE: _____ 3. BASED ON PERIODIC FIELD OBSERVATIONS BY THE ENGINEER (OR AN INDIVIDUAL UNDER HIS/HER DIRECT SUPERVISION), THE CONTRACTOR—PROVIDED DATA APPEARS TO REPRESENT THE PROJECT AS CONSTRUCTED. DATA TRANSFER CHECKED BY: _____ TITLE: _____ COMPANY: _____ DATE: _____ BY: _____		<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th style="width:10%;">DATA</th> <th style="width:10%;">DRAWN BY</th> <th style="width:10%;">CHECKED BY</th> </tr> <tr><td>BASE</td><td>TS</td><td>MJ</td></tr> <tr><td>TOPOGRAPHY</td><td>TS</td><td>MJ</td></tr> <tr><td>PROFILE</td><td>RB</td><td>JK</td></tr> <tr><td>STORM SEWER</td><td>JH</td><td>JK</td></tr> <tr><td>WATER/SANITARY SEWER</td><td>MV</td><td>JK</td></tr> <tr><td>GAS</td><td>MV</td><td>JK</td></tr> <tr><td>TELEPHONE</td><td>MV</td><td>JK</td></tr> <tr><td>ELECTRIC</td><td>TK</td><td>BM</td></tr> <tr><td>DESIGN</td><td>RB</td><td>JK</td></tr> <tr><td>QUANTITIES</td><td>RB</td><td>JK</td></tr> <tr><td>PRELIMINARY/FINAL</td><td>RB</td><td>JK</td></tr> <tr><td>MUNICIPAL/STATE</td><td>RB</td><td>JK</td></tr> </table>		DATA	DRAWN BY	CHECKED BY	BASE	TS	MJ	TOPOGRAPHY	TS	MJ	PROFILE	RB	JK	STORM SEWER	JH	JK	WATER/SANITARY SEWER	MV	JK	GAS	MV	JK	TELEPHONE	MV	JK	ELECTRIC	TK	BM	DESIGN	RB	JK	QUANTITIES	RB	JK	PRELIMINARY/FINAL	RB	JK	MUNICIPAL/STATE	RB	JK	 GRAPHIC SCALE <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th style="width:15%;">FIELD BOOKS</th> <th style="width:10%;">BM NO.</th> <th style="width:30%;">LOCATION</th> <th style="width:10%;">ELEV.</th> <th style="width:10%;">REV</th> <th style="width:10%;">DATE</th> <th style="width:15%;">DESCRIPTION</th> <th style="width:10%;">BY</th> </tr> <tr> <td>DESIGN CRW Books 147, 148, & 151</td> <td>GAAB 66</td> <td>See page D-24 of the MOA Benchmark Book</td> <td>238.10</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td>GAAB 96</td> <td>See page D-26 of the MOA Benchmark Book</td> <td>313.83</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr><td>STAKING</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>ASBUILT</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>CONTRACTOR</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>INSPECTOR</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td colspan="8" style="text-align: center;">BASIS OF THIS DATUM GAAB 1972 ADJUST</td> </tr> </table>			FIELD BOOKS	BM NO.	LOCATION	ELEV.	REV	DATE	DESCRIPTION	BY	DESIGN CRW Books 147, 148, & 151	GAAB 66	See page D-24 of the MOA Benchmark Book	238.10						GAAB 96	See page D-26 of the MOA Benchmark Book	313.83					STAKING								ASBUILT								CONTRACTOR								INSPECTOR								BASIS OF THIS DATUM GAAB 1972 ADJUST								 3940 ARCTIC BLVD, SUITE 300 ANCHORAGE, ALASKA 99503 PHONE: (907) 562-3252 #AEC1882-AK	 Joseph C. Hagna CE-11770 REGISTERED PROFESSIONAL ENGINEER		PROJECT MANAGEMENT AND ENGINEERING DEPARTMENT 14-50 IMAGE DRIVE / REFLECTION DRIVE AREA ROAD RECONSTRUCTION - PHASE 2 SCHED B STORM DRAIN PLAN & PROFILE KEYANN CIRCLE <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:30%;">SCALE</td> <td style="width:20%;">HOR. 1"=20' VER. 1"=5'</td> <td style="width:20%;">GRID SW1638, SW1738</td> <td style="width:30%;">DATE SEPT 2019</td> <td style="width:10%;">STATUS 65%</td> <td style="width:10%;">SHEET</td> </tr> </table> SD7 of SD14	SCALE	HOR. 1"=20' VER. 1"=5'	GRID SW1638, SW1738	DATE SEPT 2019	STATUS 65%	SHEET
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NOTES:

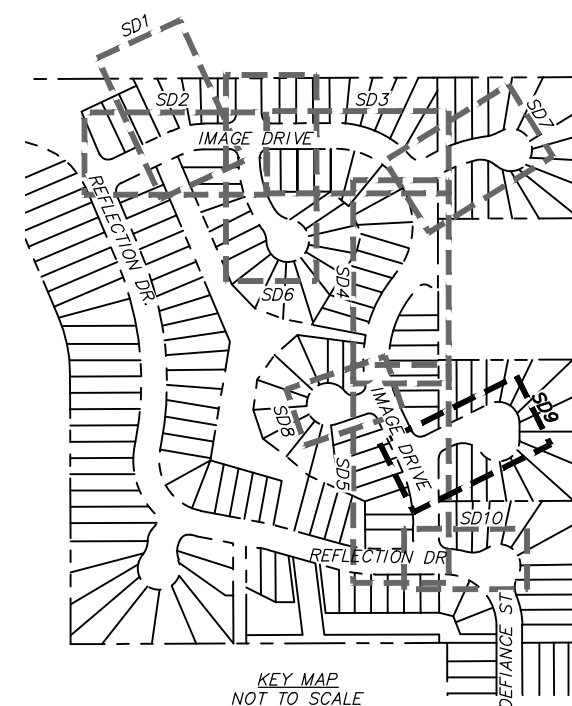
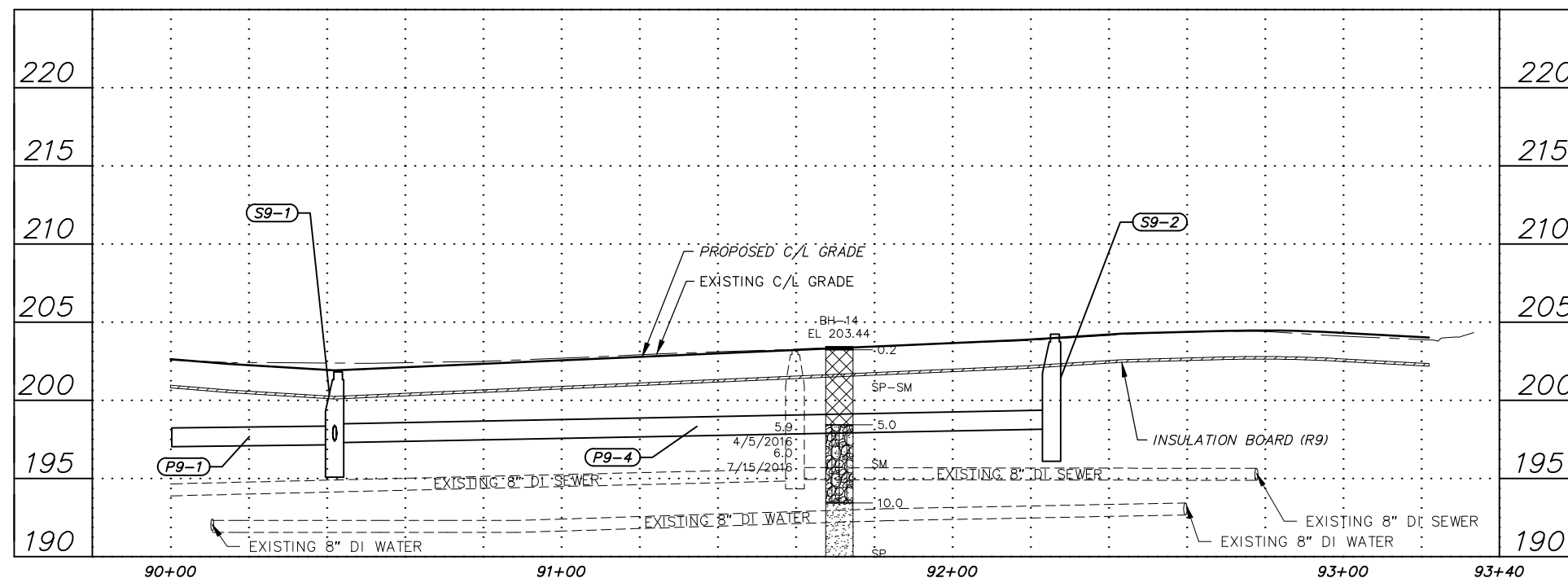
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4. REFER TO SHEET SD14 FOR FOOTING DRAIN SERVICE SUMMARY TABLE.

55.05 & 55.09 – STORM DRAIN STRUCTURES

STRUCTURE ID	TYPE OF STRUCTURE	TYPE OF CASTING	STATION	OFFSET TO STRUCTURE C/L	TOP OF CASTING ELEVATION	CURB TYPE	COMMENTS
S9-1	MH I	MH	90+42.01	5.01' RT	201.823	N/A	
S9-2	MH I	MH	92+25.40	19.03' LT	204.236	N/A	
I9-1	CB	CI	90+41.91	15.50' LT	201.825	2	
I9-2	CB	CI	90+42.05	15.47' RT	201.824	2	

55.02 & 55.03 – STORM DRAIN & SUBDRAIN PIPE

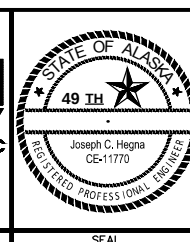
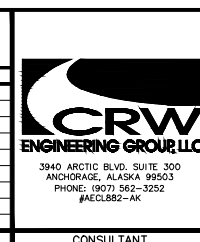
PIPE NAME	SIZE (IN.)	PIPE TYPE	LENGTH (FT.)	FROM	TO	INLET ELEVATION	OUTLET ELEVATION	SLOPE
P9-1	12	SP	44.71	S9-1	S5-2	197.25	197.130	0.30%
P9-2	12	S	20.52	I9-1	S9-1	197.48	197.400	0.48%
P9-3	12	S	10.48	I9-2	S9-1	197.5	197.400	1.54%
P9-4	12	SP	195.54	S9-2	S9-1	198.270	197.400	0.45%



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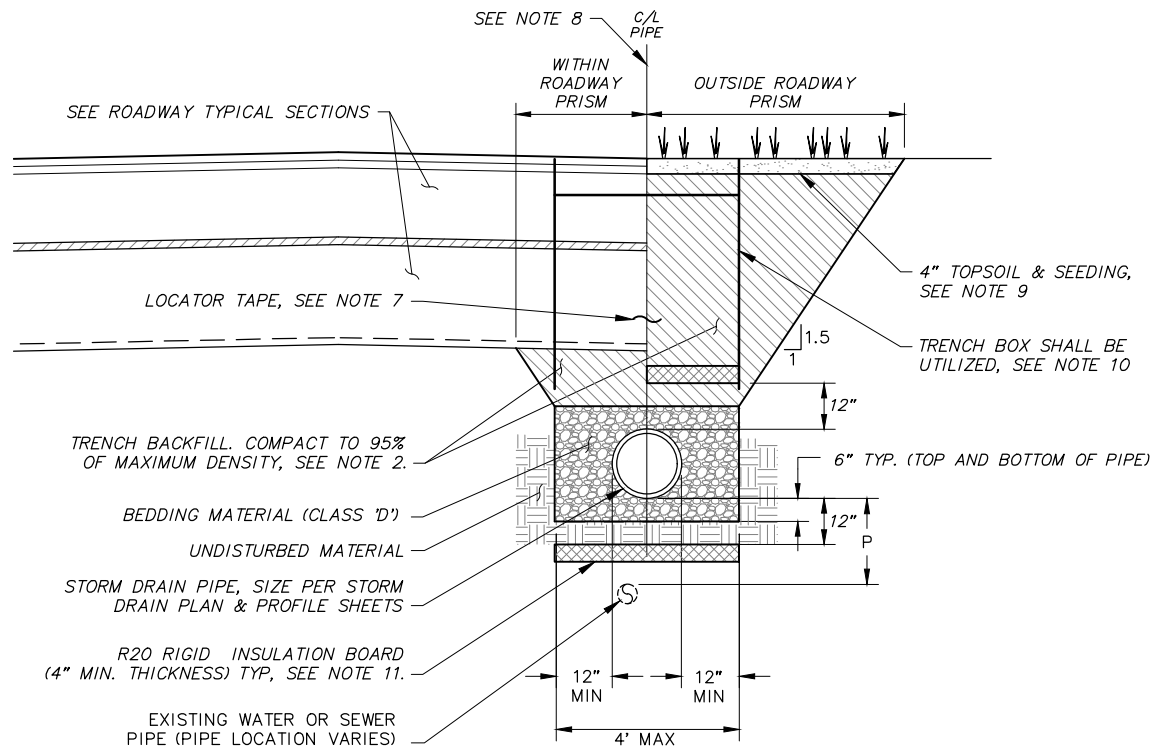
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PROFILE	RB	JK
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GAS	MV	JK
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ELECTRIC	TK	BM
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PROJECT MANAGEMENT AND ENGINEERING DEPARTMENT			
14-50	IMAGE DRIVE / REFLECTION DRIVE AREA ROAD RECONSTRUCTION - PHASE 2	SCHED B	
STORM DRAIN PLAN & PROFILE			
RIDGELAKE CIRCLE			
SCALE HOR. 1"=20' VER. 1"=5'	GRID SW1636, SW1738 DATE SEPT 2019	STATUS 65%	SHEET SD9 of SD14

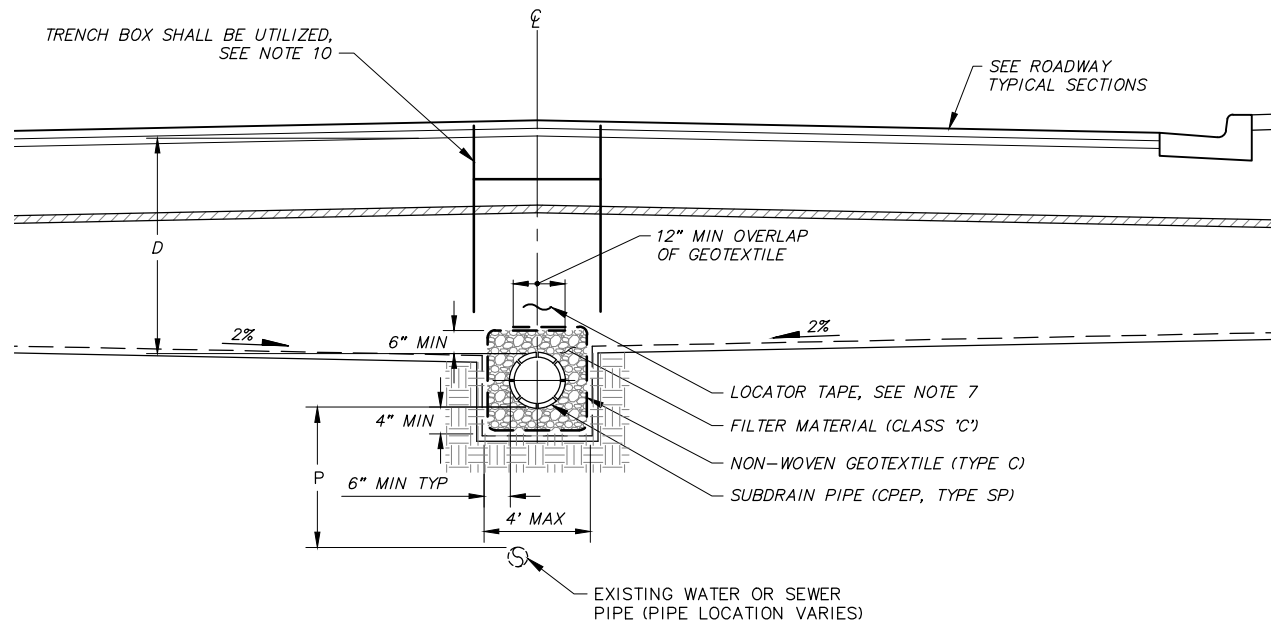
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1 **TYPICAL STORM DRAIN TRENCH SECTION**
SCALE: NTS

STORM DRAIN & SUBDRAIN TRENCH SECTION NOTES:

- TRENCH EXCAVATION AND SHORING SHALL COMPLY WITH ALL LOCAL, STATE, AND OSHA REGULATIONS AND REQUIREMENTS. INDICATED TRENCH WALL SLOPES AND DIMENSIONS ARE FOR PAY QUANTITY DETERMINATIONS ONLY.
- TRENCH BACKFILL SHALL BE NATIVE MATERIAL MEETING TYPE III CLASSIFICATION (MINIMUM) AS APPROVED BY THE ENGINEER. NATIVE MATERIAL NOT MEETING TYPE III CLASSIFICATION SHALL BE REMOVED AND REPLACED WITH TYPE II CLASSIFIED MATERIAL.
- REMOVE AND DISPOSE OF ALL ORGANIC MATERIALS IN ACCORDANCE WITH MASS SECTION 20.13.
- IN PREPARATION FOR AND IMMEDIATELY PRIOR TO PAVING, CONTRACTOR SHALL SAW CUT AND REMOVE AN ADDITIONAL 12 INCHES FROM EXISTING PAVEMENT EDGE. THE ENGINEER MAY REQUIRE MORE THAN 12 INCHES ADDITIONAL CUT IF THE EXISTING PAVEMENT HAS BEEN LIFTED IN THE REMOVAL PROCESS, IF THE JOINT DOES NOT OCCUR ON UNDISTURBED MATERIAL, OR IF THE JOINT IS LOCATED WITHIN THE TRAVEL LANE.
- WATER LINES CROSSING STORM DRAIN LINES REQUIRE A MINIMUM VERTICAL SEPARATION OF THREE (3) FEET. INSTALL R20 INSULATION BOARD WHEN 'P' IS LESS THAN 3', AS MEASURED FROM OUTSIDE OF PIPES & WITHIN BEDDING LIMITS, OR AS DIRECTED BY ENGINEER IN FIELD. EIGHTEEN (18) INCHES IS THE MINIMUM INSULATED SEPARATION DISTANCE. IF EIGHTEEN (18) INCHES CAN NOT BE OBTAINED, THE WATER LINE WILL HAVE TO BE RELOCATED.
- WHERE WATER AND STORM DRAIN MAINS CROSS, STORM DRAIN MAIN JOINTS SHALL BE AT LEAST 10 FEET FROM WATER MAIN JOINTS.
- INSTALL DETECTABLE LOCATOR TAPE THREE (3) FEET BELOW FINISH GRADE OR TWO (2) FEET DEEP IN THE STREET STRUCTURAL SECTION PER MASS SECTION 20.13.
- LOCATION OF STORM DRAIN VARIES WITHIN ROADWAY. INSTALL STORM DRAIN AS SHOWN ON STORM DRAIN PLAN & PROFILE SHEETS.
- PLACE 4" OF TOPSOIL AND SEEDING (SCHEDULE A) ON ALL DISTURBED AREAS.
- TRENCH BOX SHALL BE UTILIZED TO MINIMIZE TRENCH WIDTH AND REDUCE IMPACTS TO ADJACENT PROPERTIES AND RE-VEGETATION. CONTRACTOR SHALL TAKE EXTRA PRECAUTIONS TO AVOID IMPACTS TO TREE PROTECTION ZONES.
- INSTALL R20 INSULATION BOARD WHEN:
 - 'D' IS LESS THAN 4' IN AREAS OUTSIDE OF IMAGE DRIVE INSULATED ROADWAY SECTION, INSULATION PLACEMENT SHALL CONFORM TO MASS DETAIL 20-9.
 - 'P' IS LESS THAN 3', AS MEASURED FROM OUTSIDE OF PIPES & WITHIN BEDDING LIMITS, OR AS DIRECTED BY ENGINEER IN THE FIELD.



2 **TYPICAL SUBDRAIN TRENCH SECTION**
SCALE: NTS

GENERAL STORM DRAIN STRUCTURE & PIPE NOTES:

- HORIZONTAL AND VERTICAL CONTROL POINTS FOR STORM DRAIN STRUCTURES (REFERENCE POINTS CALLED OUT IN PLAN & PROFILE SHEETS) ARE:

STRUCTURE	HORZ CONTROL	REFERENCE ELEV.
TYPE I MH	CENTER OF MH	FG/TOP OF LID.
TYPE II MH	CENTER OF MH	FG/TOP OF LID.
TYPE II CBMH	CENTER OF MH	TBC @ MID. PT. OF CURB INLET HOOD
CATCH BASIN	CENTER OF CB	TBC @ MID. PT. OF CURB INLET HOOD
CB W/ FIELD INLET	CENTER OF CB	FG/TOP OF FRAME
- PIPE LENGTHS ARE BASED ON THE HORIZONTAL DISTANCE BETWEEN THE CENTER OF CONNECTING STRUCTURES OR FITTINGS. PIPE SLOPES ARE CALCULATED USING THE ACTUAL LENGTH OF PIPE FROM THE INSIDE FACE OF STRUCTURES.
- UNLESS OTHERWISE NOTED ALL STORM DRAIN MAIN PIPE SHALL BE CPEP, TYPE SP. SEE LINES NEAR BASIN FOR EXCEPTIONS. CATCH BASIN LEADS WILL BE CPEP, TYPE S.
- THE FOLLOWING ABBREVIATIONS USED ON THE STORM DRAIN STRUCTURE TABLES ON THE PLAN & PROFILES SHEETS ARE DESCRIBED BELOW:
 - CB - CATCH BASIN
 - CB (RED) - REDUCED HEIGHT CATCH BASIN
 - CB MH II - CATCH BASIN MANHOLE, TYPE II
 - MH I - STORM DRAIN MANHOLE, TYPE I
 - MH II - STORM DRAIN MANHOLE, TYPE II
 - OGS - OIL AND GRIT SEPARATOR
 - CONNECT - CONNECT TO STORM DRAIN MANHOLE
 - C.I. - CURB INLET
 - MH - MANHOLE FRAME AND LID

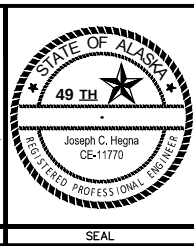
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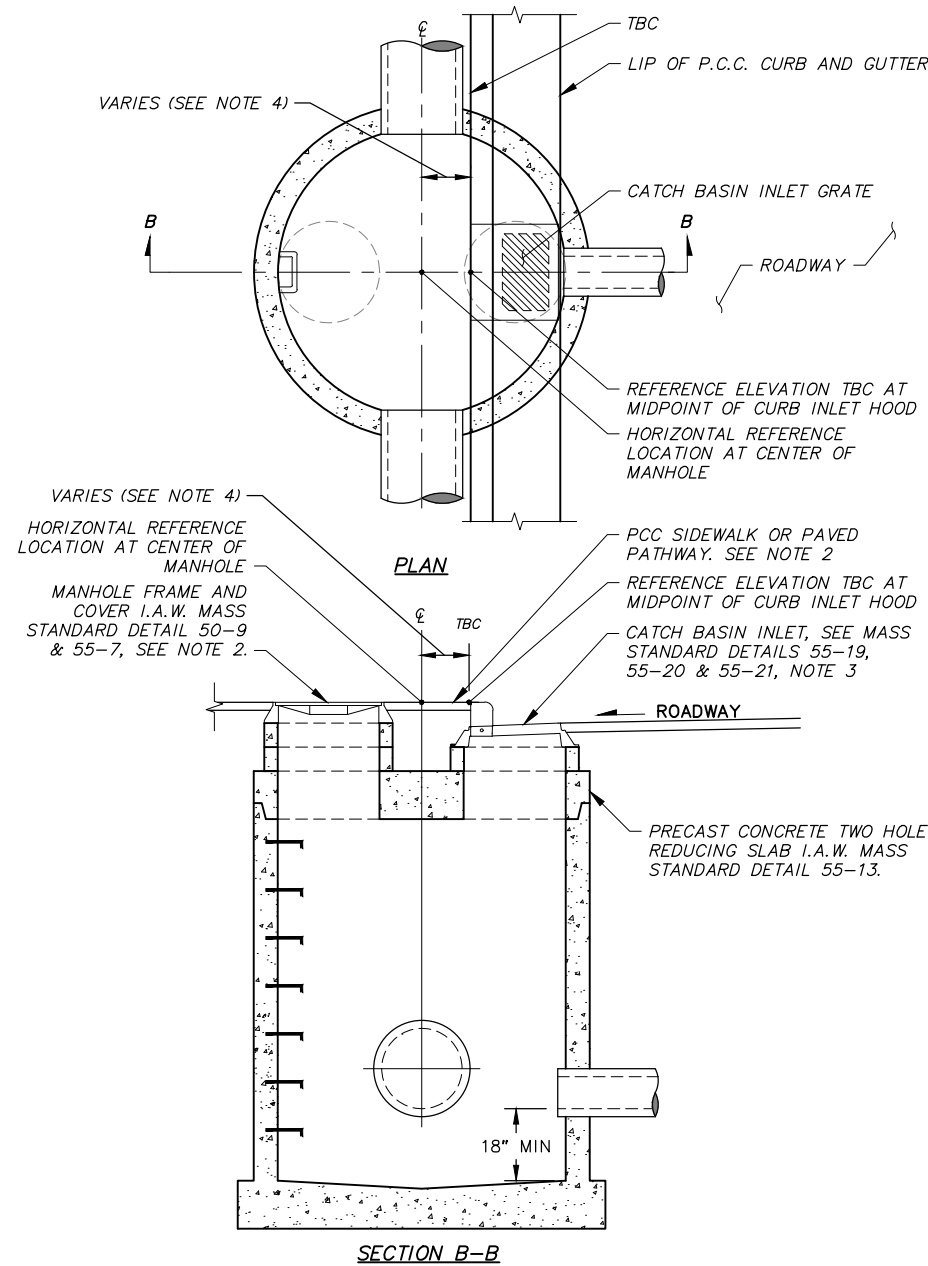
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PROFILE	RB	JK							
STORM SEWER	JH	JK							
WATER/SANITARY SEWER	MV	JK							
GAS	MV	JK							
TELEPHONE	MV	JK							
ELECTRIC	TK	BM							
DESIGN	RB	JK							
QUANTITIES	RB	JK							
PRELIMINARY/FINAL	RB	JK							
MUNICIPAL/STATE	RB	JK							
PLAN CHECK			CONSTRUCTION RECORD			VERTICAL DATUM			
						REVISIONS			
						CONSULTANT			
						SEAL			



PROJECT MANAGEMENT AND ENGINEERING DEPARTMENT			
14-50	IMAGE DRIVE / REFLECTION DRIVE AREA ROAD RECONSTRUCTION - PHASE 2	SCHD B	
STORM DRAIN DETAILS			
SCALE HOR. 1"=20' VER. 1"=5'	GRID SW1638, SW1738	DATE SEPT 2019	STATUS 65%
SD11 of SD14			SHEET

File: s:_data\10133.00 Image Reflection Area Reconstruction\00 CADD\01 Working Set\01 Civil\Phase 2\10133.00 Details - Storm - Phase 2.dwg



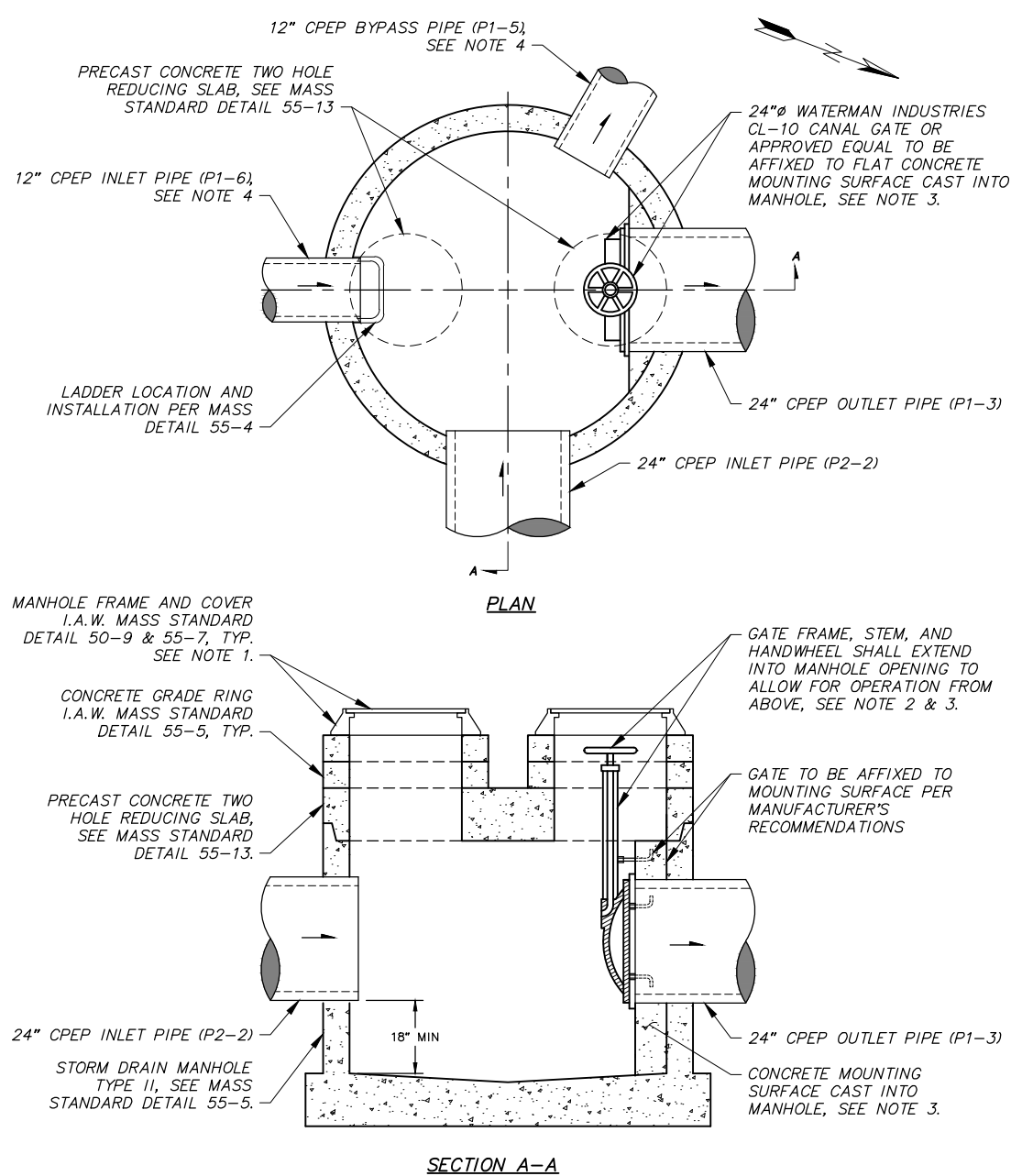
TYPE II CATCH BASIN MANHOLE NOTES

- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE 2015 MUNICIPALITY OF ANCHORAGE STANDARD SPECIFICATIONS AS CURRENTLY AMENDED AND AS MODIFIED ON THIS DETAIL.
- SET MANHOLE COVER 1/4-INCH BELOW PCC SIDEWALK OR PAVED PATHWAY FINISH GRADE OR PER MASS STANDARD DETAIL 55-10 FOR ALL OTHER LOCATIONS.
- MH CENTER MAY BE ON ROADWAY SIDE OF CURB LINE IN SOME LOCATIONS. ALIGN CATCH BASIN INLET WITH CURB LINE.
- OFFSET FOR STANDARD INSTALLATION IS 0.95'.

1

TYPE II CATCH BASIN MANHOLE DETAIL

SCALE: NTS



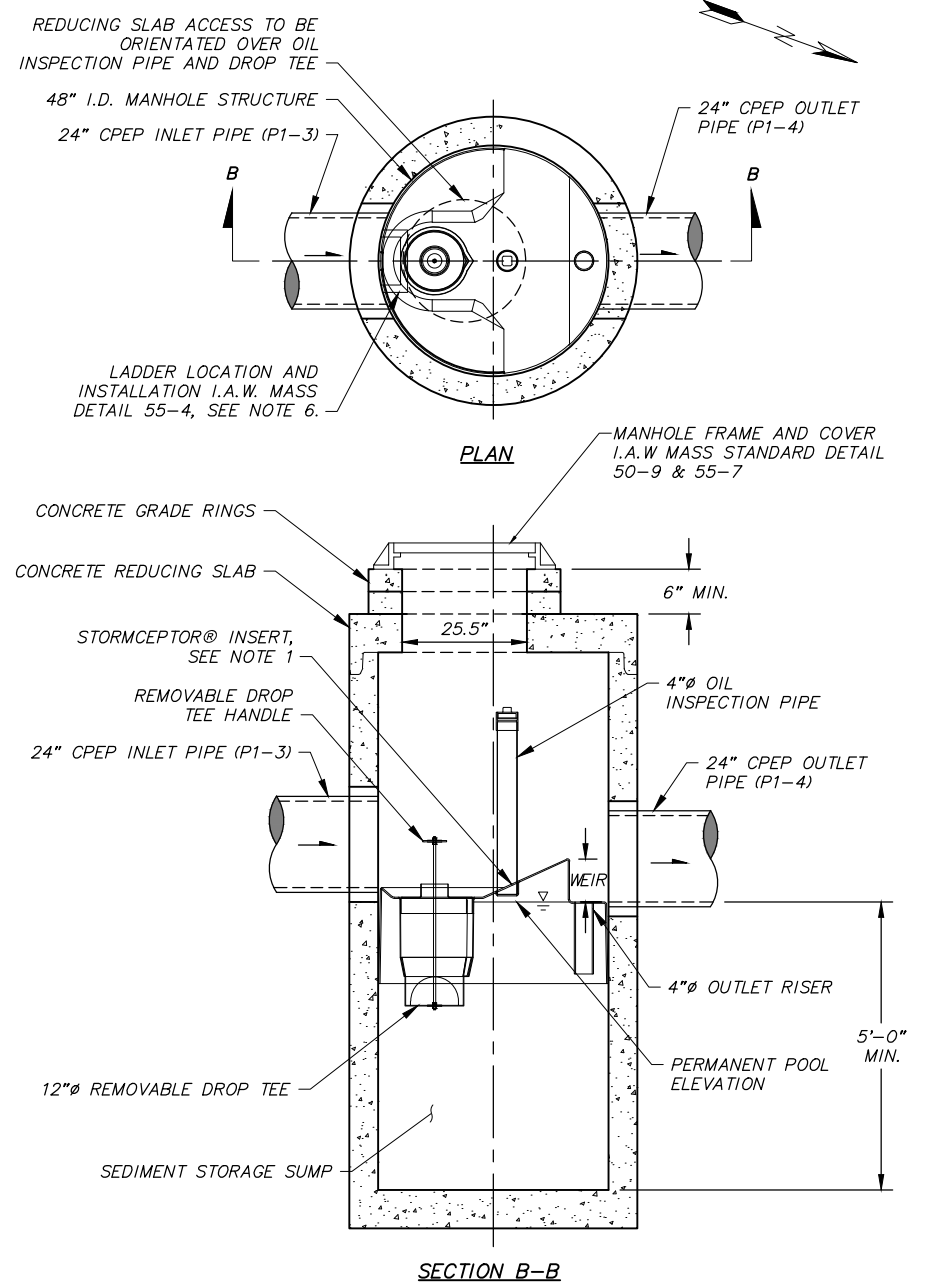
BYPASS MANHOLE NOTES

- CAST CONCRETE MOUNTING SURFACE INTO MANHOLE SUCH THAT BYPASS GATE HANDWHEEL IS CENTERED IN ACCESS OPENING.
- BYPASS GATE STEM SHALL BE NON-RISING TO POSITION HANDWHEEL AT CONVENIENT STATIC OPERATING ELEVATION FROM MANHOLE OPENING ABOVE.
- BYPASS MANHOLE (STRUCTURE S-2) SHALL BE PAID FOR UNDER PAY ITEM 55.05 CONSTRUCT (TYPE II) BYPASS MANHOLE.
- INLET PIPE (P1-6) AND BYPASS PIPE (P1-5) NOT SHOWN IN SECTION A-A FOR CLARITY.

2

BYPASS MANHOLE (S2-3) DETAIL

SCALE: NTS



OIL & GRIT SEPARATOR NOTES

- OIL AND GRIT SEPARATOR (STRUCTURE OGS1-1) SHALL BE STORMCEPTOR MODEL STC4501 MANUFACTURED BY CONTECH ENGINEERED SOLUTIONS LLC OR APPROVED EQUAL.
- ACCESS OPENING THROUGH REDUCING SLAB SHOULD BE POSITIONED OVER THE DROP TEE AND OIL PORT.
- SEE STORM DRAIN PLAN & PROFILE SHEETS FOR INLET AND OUTLET PIPE INVERTS & ORIENTATION AND STRUCTURE INFORMATION.
- LADDER RUNGS NOT SHOWN IN SECTION VIEW FOR CLARITY.

3

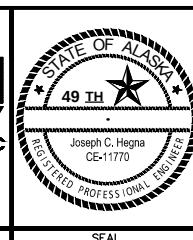
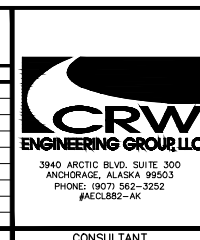
OIL AND GRIT SEPARATOR (OGS1-1)

SCALE: NTS

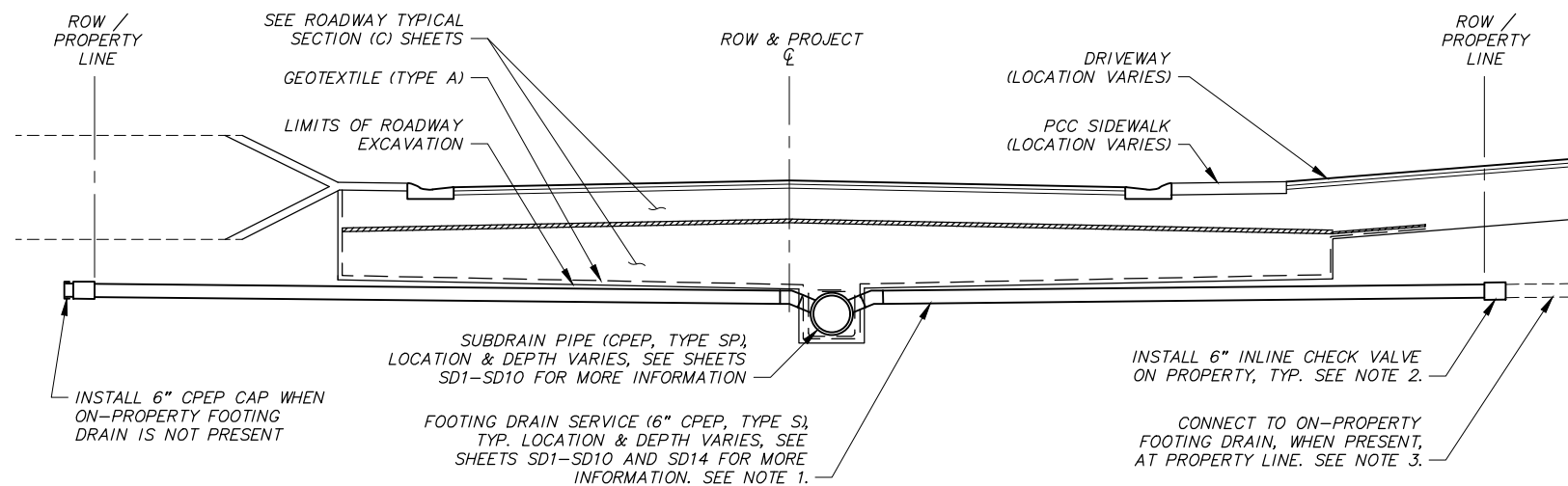
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BY: _____	TITLE: _____
2. DATA TRANSFERRED BY: _____	TITLE: _____
COMPANY: _____	DATE: _____
3. BASED ON PERIODIC FIELD OBSERVATIONS BY THE ENGINEER (OR AN INDIVIDUAL UNDER HIS/HER DIRECT SUPERVISION), THE CONTRACTOR-PROVIDED DATA APPEARS TO REPRESENT THE PROJECT AS CONSTRUCTED.	
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COMPANY: _____	DATE: _____
BY: _____	TITLE: _____

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BASE	TS	MJ
TOPOGRAPHY	TS	MJ
PROFILE	RB	JK
STORM SEWER	JH	JK
WATER/SANITARY SEWER	MV	JK
GAS	MV	JK
TELEPHONE	MV	JK
ELECTRIC	TK	BM
DESIGN	RB	JK
QUANTITIES	RB	JK
PRELIMINARY/FINAL	RB	JK
MUNICIPAL/STATE	RB	JK

FIELD BOOKS	BM NO.	LOCATION	ELEV.	REV	DATE	DESCRIPTION	BY
DESIGN CRW Books 147, 148, & 151	GAAB 66	See page D-24 of the MOA Benchmark Book	238.10				
	GAAB 96	See page D-26 of the MOA Benchmark Book	313.83				
STAKING							
ASBUILT							
CONTRACTOR							
INSPECTOR							
BASIS OF THIS DATUM GAAB 1972 ADJUST							
REVISIONS							



PROJECT MANAGEMENT AND ENGINEERING DEPARTMENT			
14-50	IMAGE DRIVE / REFLECTION DRIVE AREA ROAD RECONSTRUCTION - PHASE 2	SCHED B	
STORM DRAIN DETAILS			
SCALE HOR. 1"=20' VER. 1"=5'	GRID SW1638, SW1738	DATE SEPT 2019	STATUS 65%
SD12 of SD14			SHEET



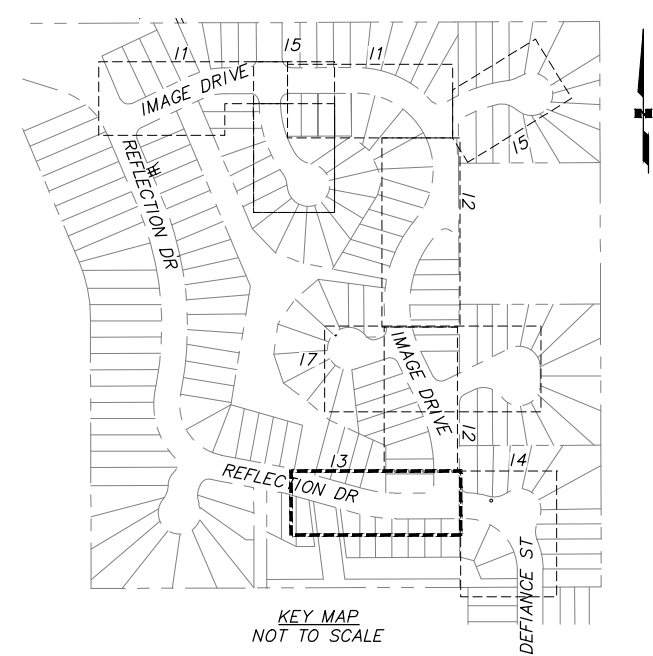
FOOTING DRAIN SERVICE NOTES

1. FOOTING DRAIN SERVICE SHALL BE CONSTRUCTED I.A.W. MASS STANDARD DETAIL 55-26 AND AS MODIFIED BY THIS DETAIL.
2. CHECK VALVE SHALL BE CHECKMATE INLINE CHECK VALVE MANUFACTURED BY TIDEFLEX TECHNOLOGIES (DIVISION OF RED VALVE, INC.) OR APPROVED EQUAL.
3. CONNECTION TO EXISTING FOOTING DRAIN SHALL BE INCIDENTAL TO PAY ITEM 55.18, CONSTRUCT FOOTING DRAIN SERVICE.

FOOTING DRAIN SERVICE DETAIL

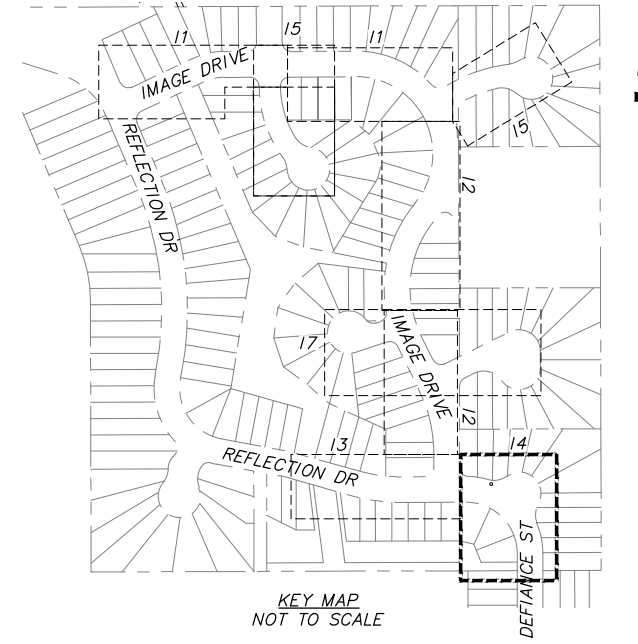
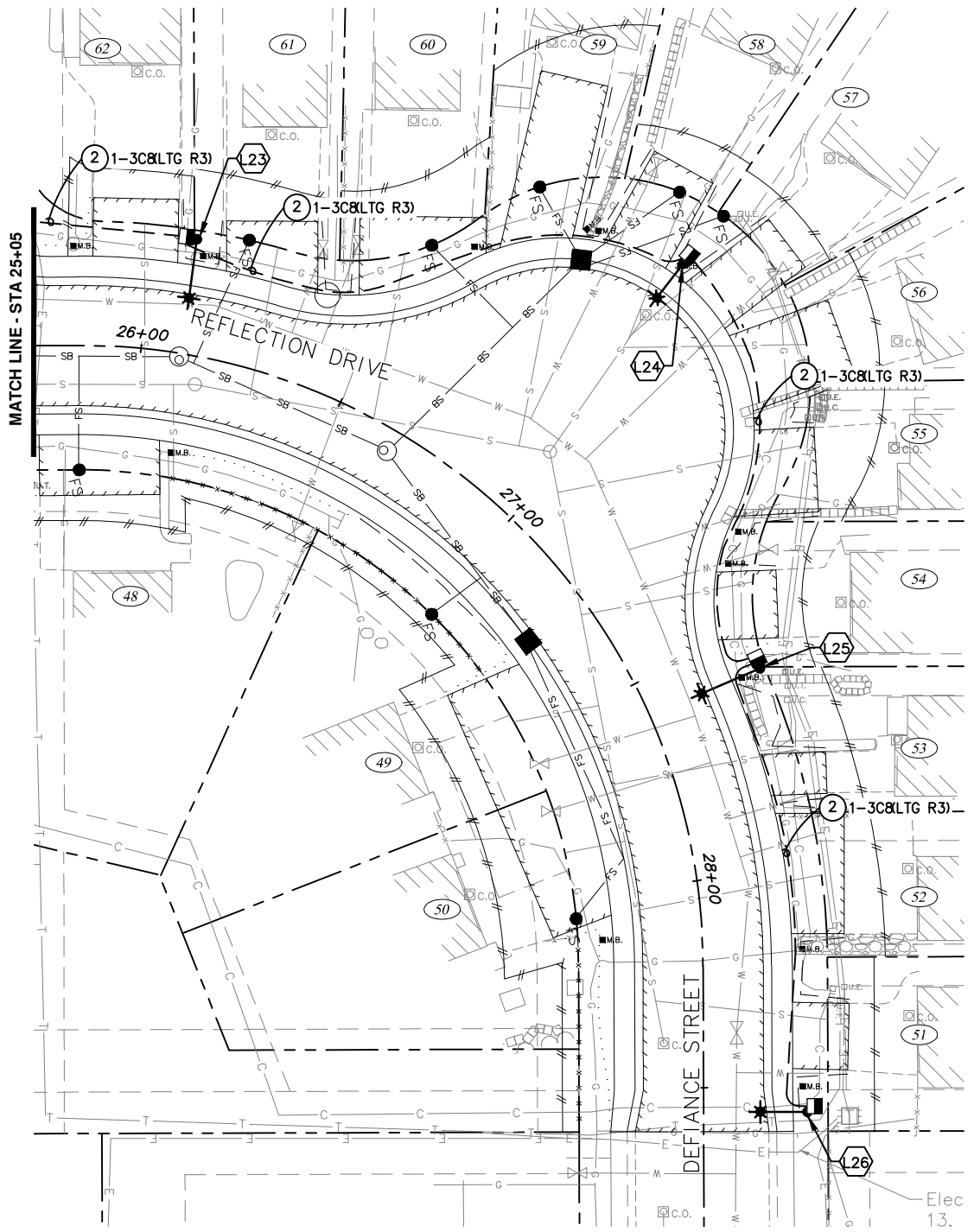
SCALE: NTS

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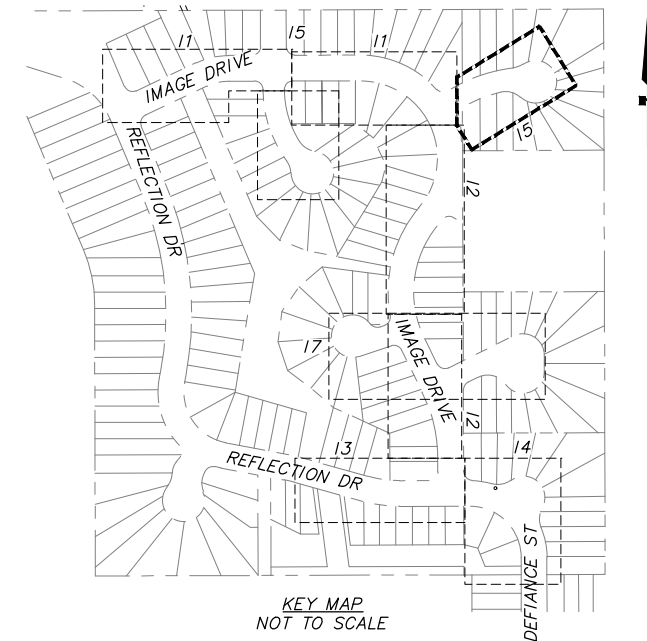
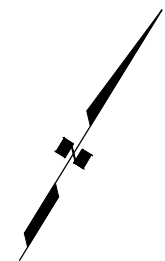
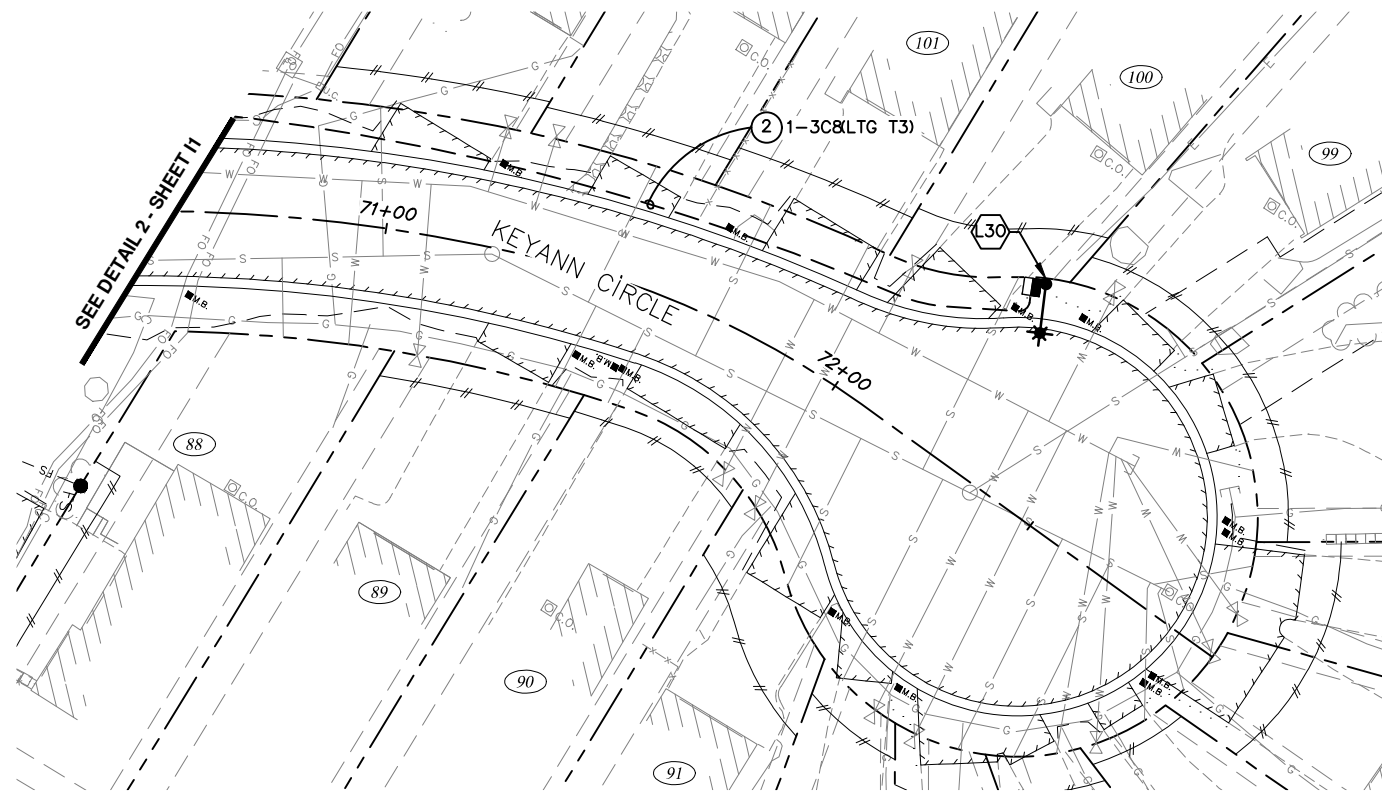
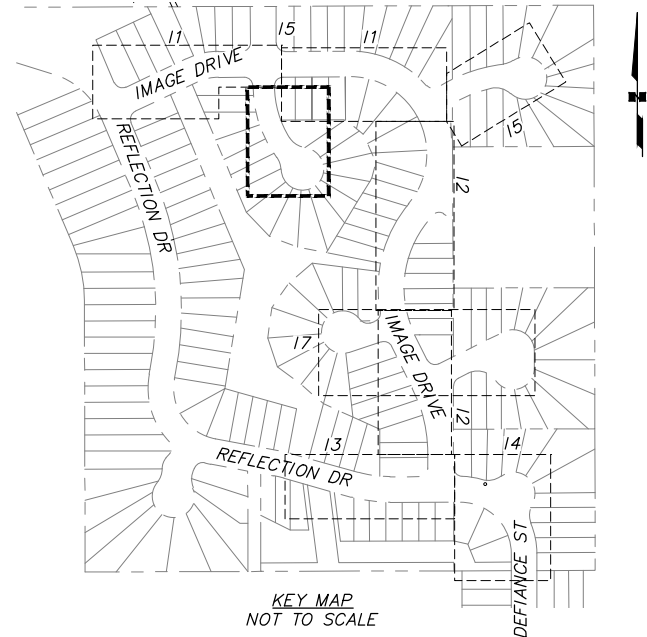
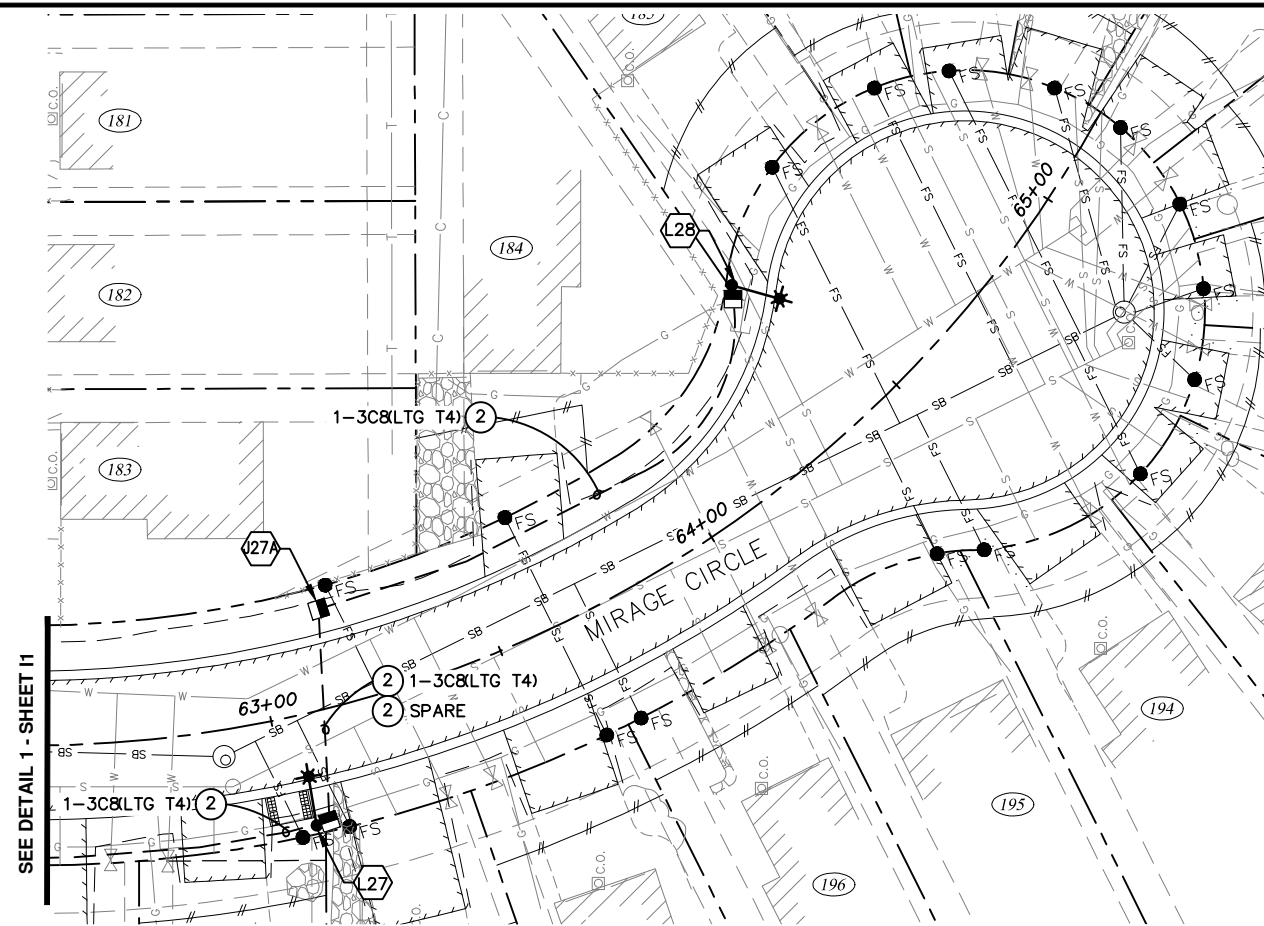
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	SCALE HOR. 1"=20' VER. N/A		GRID SW1638, SW1738		13 of 19
		DATE SEP 2019	STATUS 65%		
		SHEET			



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LIGHT LEVELS TABLE						
LOCATION	MOA REQUIRED MIN. AVERAGE ILLUMINANCE (FC)	AVERAGE DESIGN ILLUMINANCE (FC)	MOA REQUIRED MAXIMUM UNIFORMITY RATIO	DESIGN UNIFORMITY RATIO	MOA REQUIRED MAX. VEILING LUMINANCE RATIO	DESIGN VEILING LUMINANCE RATIO
IMAGE DRIVE	0.4	0.7	6.0:1	4.1:1	0.3:1	0.1:1
IMAGE DRIVE/REFLECTION DRIVE INTX – NORTH	0.8	1.3	6.0:1	2.2:1	N/A	N/A
IMAGE DRIVE/REFLECTION DRIVE INTX – SOUTH	0.8	1.3	6.0:1	2.6:1	N/A	N/A
IMAGE DRIVE/MIRAGE CIRCLE INTX	0.8	1.0	6.0:1	2.4:1	N/A	N/A
IMAGE DRIVE/KEYANN CIRCLE INTX	0.8	1.3	6.0:1	2.7:1	N/A	N/A
IMAGE DRIVE/IMAGE CIRCLE INTX	0.8	1.0	6.0:1	2.0:1	N/A	N/A
IMAGE DRIVE/RIDGELAKE CIRCLE INTX	0.8	1.0	6.0:1	2.6:1	N/A	N/A
PEDESTRIAN FACILITIES	0.4	0.6	4.0:1	3.3:1	N/A	N/A

NOTES:

1. MOA REQUIREMENTS ARE FROM 2007 DCM CHAPTER 5 FOR A LOCAL ROADWAY WITH LOW PEDESTRIAN CONFLICT (MEDIUM DENSITY RESIDENTIAL).
2. LIGHT LOSS FACTOR (LLF) = 0.93.
3. MOUNTING HEIGHTS ARE 30'.

LUMINAIRE DEFINITION											
TYPE	SYMBOL	MAKE	MODEL	LAMP	CCT*	DISTRIBUTION	VOLTAGE	DRIVE CURRENT	COLOR	OPTIONS	MOUNT
ROADWAY		CREE	LEDWAY	SEE LUMINAIRE SCHEDULE	4000K	SEE LUMINAIRE SCHEDULE	240	525mA	SILVER	7-PIN RECEPTACLE, BACKLIGHT SHIELD	MAST ARM

*CCT = CORRELATED COLOR TEMPERATURE

ROADWAY LUMINAIRE SCHEDULE							
POLE	STATION	OFFSET	SHAFT LENGTH	MAST ARM LENGTH	# OF LED	DISTRIBUTION	CIRCUIT
L11	41+83.1	23.48 LT	28'	8'	40	MEDIUM, TYPE 2	T5
L12	43+48.6	30.70 LT	26'	13'	60	MEDIUM, TYPE 2	T3
L13	44+88.6	24.83 LT	27'	10'	40	MEDIUM, TYPE 2	T3
L14	46+30.9	22.80 LT	28'	9'	40	MEDIUM, TYPE 2	T3
L15	47+07.4	28.01 RT	27'	13'	40	MEDIUM, TYPE 2	T1
L16	47+69.0	26.68 LT	28'	9'	40	MEDIUM, TYPE 2	T1
L17	49+02.4	28.50 RT	26'	13'	40	MEDIUM, TYPE 2	T1
L18	50+61.5	27.77 RT	27'	12'	40	MEDIUM, TYPE 2	T1
L19	52+01.4	28.00 RT	27'	11'	40	MEDIUM, TYPE 2	T1
L20	53+61.2	31.20 RT	26'	13'	60	MEDIUM, TYPE 2	R4
L21	54+60.8	29.86 LT	27'	12'	60	MEDIUM, TYPE 2	R4
L22	56+32.4	24.66 LT	28'	9'	40	MEDIUM, TYPE 2	R6
L23	26+09.5	28.02 LT	26'	13'	40	MEDIUM, TYPE 2	R3
L24	26+91.6	73.33 LT	28'	9'	60	MEDIUM, TYPE 3	R3
L25	27+58.8	28.89 LT	26'	14'	40	MEDIUM, TYPE 2	R3
L26	28+55.9	25.00 LT	27'	10'	40	MEDIUM, TYPE 2	R3
L27	63+04.5	23.17 RT	28'	9'	40	MEDIUM, TYPE 2	T4
L28	64+38.5	39.02 LT	28'	9'	60	MEDIUM, TYPE 4	T4
L29	70+41.6	23.25 LT	28'	9'	40	MEDIUM, TYPE 2	T3
L30	72+23.2	42.75 LT	28'	9'	60	MEDIUM, TYPE 4	T3
L31	81+14.3	44.36 LT	28'	8'	80	MEDIUM, TYPE 4	R4
L32	91+34.5	21.27 LT	28'	10'	60	MEDIUM, TYPE 2	R6
L33	93+21.4	27.55 LT	28'	8'	60	MEDIUM, TYPE 4	R6

JUNCTION BOX SCHEDULE				
J-BOX	TYPE	CIRCUIT	STATION	OFFSET
J12A	1A	T1,T3	44+05.1	28.92 LT
J12B	1A	T4	43+44.6	26.39 RT
J15A	1A	T3	47+73.6	23.90 RT
J20A	1A	R4	53+68.1	21.55 LT
J21A	2	R4,R6	55+12.3	31.02 LT
J22A	2	R3,R4,R6	57+10.7	26.91 LT
J27A	1A	T4	63+15.5	20.50 LT
J32A	1A	R6	91+42.1	39.19 RT

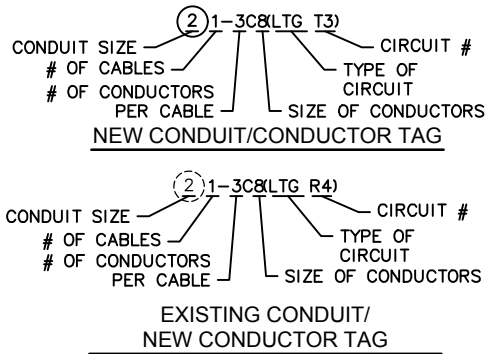
NOTE: ONLY JUNCTION BOXES NOT ASSOCIATED WITH AN ELECTROLIER OR LOAD CENTER ARE SHOWN IN THIS TABLE.

ILLUMINATION NOTES:

1. PROVIDE HOT DIP GALVANIZED STEEL POLES WITH MAST ARMS PER MOA STANDARDS DETAIL 80-19 AND 80-20, RESPECTIVELY.
2. ALL LUMINAIRE POLE FOUNDATIONS SHALL BE DRIVEN PILE UNLESS OTHERWISE NOTED ON THE DRAWINGS. LUMINAIRE POLE FOUNDATION SHALL BE LOCATED A MINIMUM OF 3 FEET FROM BACK OF SIDEWALK OR PATHWAY. WHEN POLE LOCATION IS WITHIN 10' OF A UTILITY, EXCAVATE A HOLE TO 12" BELOW ANTICIPATED UTILITIES DEPTH WITH A VACTOR TRUCK BEFORE DRIVING PILE. SEE MASS DETAIL 80-13.
3. INSTALL THE POLES WITH FIXED BASES PER MOA DETAIL 80-21.
4. LUMINAIRES APPROVED FOR SUBSTITUTION SHALL PROVIDE THE LIGHT LEVELS AND UNIFORMITIES INDICATED IN THE LIGHT LEVELS TABLE.
5. PROVIDE THE POLE SHAFT LENGTHS AND MAST ARM LENGTHS SHOWN IN THE POLE SCHEDULE.
6. PROVIDE RIGID METAL CONDUIT (RMC) WITH A BARE, STRANDED #8 AWG COPPER GROUND FOR ALL RACEWAYS.
7. PROVIDE ONE SPARE 2" RMC WITH PULL ROPE BETWEEN THE JUNCTION BOXES ADJACENT TO EVERY ROAD CROSSING.
8. PROVIDE A 3 CONDUCTOR CABLE FOR EACH BRANCH CIRCUIT. SIZE AS SHOWN ON THE DRAWINGS.
9. CONNECT NEW CONDUCTORS TO EXISTING CONDUCTORS AT DISCONNECT INSIDE HANDHOLE TO POWER NEW LUMINAIRES.
10. INSTALL THE JUNCTION BOX WITHIN 3' OF THE POLE OR LOAD CENTER. DO NOT INSTALL JUNCTION BOXES IN SIDEWALKS, PATHWAYS OR TRAILS. JUNCTION BOXES INSTALLED BEHIND SIDEWALKS, PATHWAYS OR TRAILS SHALL HAVE A MINIMUM SETBACK OF 2' AND BE PLACED BEHIND OR ON THE DOWN TRAFFIC SIDE OF FOUNDATIONS.
11. IN THE DRAWINGS, EACH JUNCTION BOX HAS THE SAME IDENTIFYING NUMBER AS THE LIGHT POLE OR LOAD CENTER NEXT TO IT. FOR JUNCTION BOXES LOCATED BETWEEN POLES, THE IDENTIFYING NUMBER INCLUDES THE SMALLER OF THE TWO POLE NUMBERS BETWEEN WHICH THE JUNCTION BOX IS LOCATED AND AN "A" OR "B" SUFFIX.

LEGEND

EXISTING	PROPOSED	
		CONDUIT/WIRE RUN BELOW GRADE
		LUMINAIRE
		TYPE 1A JUNCTION BOX
		TYPE 2 JUNCTION BOX
		TYPE 1A LOAD CENTER



RECORD DRAWING		DATA		DRAWN BY		CHECKED BY																	
1. DATA PROVIDED BY: _____ TITLE: _____		BASE	TS	MJ																			
THIS WILL SERVE TO CERTIFY THAT THESE RECORD DRAWINGS ARE A TRUE AND ACCURATE REPRESENTATION OF THE PROJECT AS CONSTRUCTED.		TOPOGRAPHY	TS	MJ																			
CONTRACTOR: _____		PROFILE	RB	JK																			
BY: _____ TITLE: _____ DATE: _____		STORM SEWER	JH	JK																			
2. DATA TRANSFERRED BY: _____ TITLE: _____		WATER/SANITARY SEWER	MV	JK																			
COMPANY: _____ DATE: _____		GAS	MV	JK																			
3. BASED ON PERIODIC FIELD OBSERVATIONS BY THE ENGINEER (OR AN INDIVIDUAL UNDER HIS/HER DIRECT SUPERVISION), THE CONTRACTOR-PROVIDED DATA APPEARS TO REPRESENT THE PROJECT AS CONSTRUCTED.		TELEPHONE	MV	JK																			
DATA TRANSFER CHECKED BY: _____ TITLE: _____		ELECTRIC	TK	BM																			
COMPANY: _____ DATE: _____		DESIGN	RB	JK																			
BY: _____		QUANTITIES	RB	JK																			
		PRELIMINARY/FINAL	RB	JK																			
		MUNICIPAL/STATE	RB	JK																			
		PLAN CHECK																					
		CONSTRUCTION RECORD																					
		VERTICAL DATUM																					
		REVISIONS																					
		CONSULTANT																					
		SEAL																					

14-50

IMAGE DRIVE / REFLECTION DRIVE AREA
ROAD RECONSTRUCTION - PHASE 2

SCHED C

ILLUMINATION NOTES, SCHEDULES,
AND DETAILS

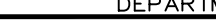


3940 ARCTIC BLVD, SUITE 300
ANCHORAGE, ALASKA 99503
PHONE: (907) 562-3252
#AEC.882-AK



49 TH

Tyler R. Koene
EE-14401



17 of 19

SCALE

HOR. N/A
VER. N/A

GRID SW638, SW738

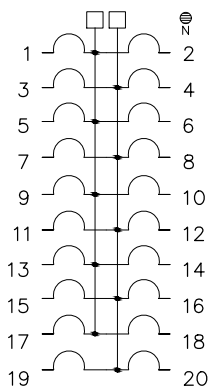
DATE SEP 2019

STATUS 65%

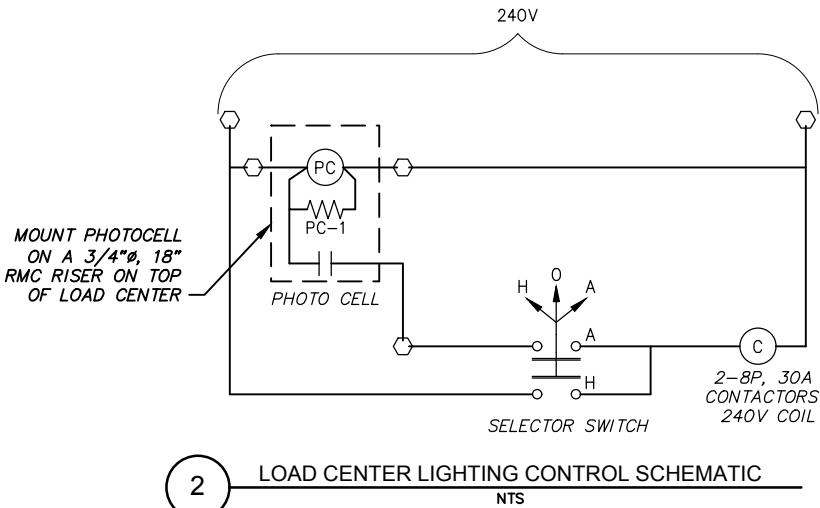
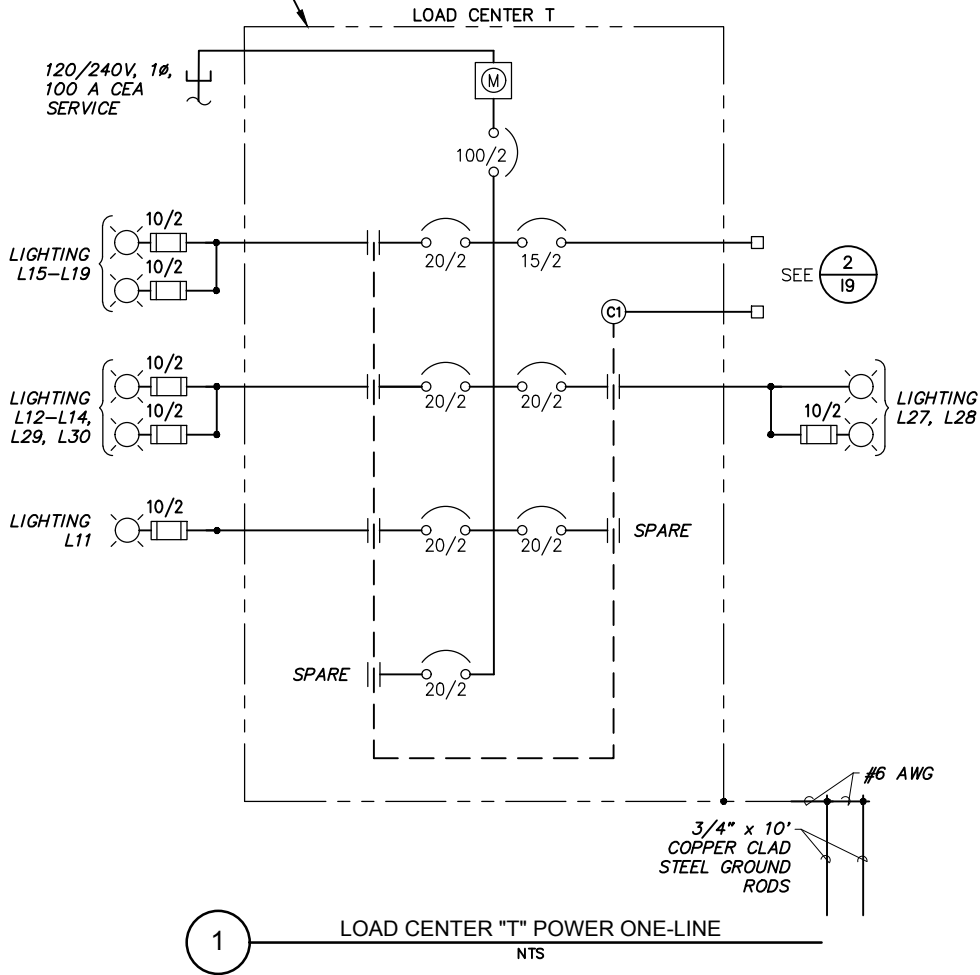
SHEET

VOLTAGE DROPS					
CIRCUIT	SIZE	LENGTH	VOLTAGE	CURRENT	V.D.
T1	#8 AWG	663	240V	1.45	0.58%
T3	#8 AWG	1159	240V	1.73	1.22%
T4	#8 AWG	461	240V	0.72	0.20%
T5	#8 AWG	240	240V	0.29	0.01%

LOAD CENTER NO. T TYPE: 1A
LOCATION: STATION - 42+14.00, OFFSET - 27.5 LT, IMAGE DRIVE
2-8 POLE, 30 AMP CONTACTORS
MAIN BREAKER A: 2 POLE, 100 AMPS, 240 VOLTS

PANEL A				120/240	VOLTS	SINGLE	PHASE	3	WIRE
<u>100</u> AMPS MAIN LUGS,				<u>10,000</u>		AMPS INTERRUPT CAPACITY			
CKT.	CIRCUIT DESCRIPTION	KVA	AMP			AMP	KVA	CIRCUIT DESCRIPTION	CKT.
T1	ELECTROLIERS L15-L19	0.4	20/2			15/2	0.2	PHOTOELECTRIC CONTROL	T2
T3	ELECTROLIERS L12-L14, L29,L30	0.5	20/2	5	6	20/2	0.2	ELECTROLIERS L27, L28	T4
T5	ELECTROLIER L11	0.1	20/2	9	10	20/2	0.0	SPARE	T6
T7	SPARE	0.0	20/2	13	14				
				15	16				
				17	18				
				19	20				
TOTAL CONNECTED LOAD =						1.3 KVA			
TOTAL AMPS =						5.6 A			

PLACE PLACARD ON FRONT OF LOAD CENTER INSCRIBED WITH THE FOLLOWING:
MAXIMUM FAULT CURRENT = XXXXA
CALCULATED X/XX/XXXX



- LOAD CENTER NOTES:
- PLACARDS FOR LOAD CENTERS SHALL HAVE SUFFICIENT DURABILITY TO WITHSTAND THE ENVIRONMENT INVOLVED. CONTACT ENGINEER PRIOR TO ORDER OF PLACARD TO VERIFY MAXIMUM FAULT CURRENT.
 - LABEL THE FRONT WITH 3M SCOTCH CAL REFLECTIVE DECALS NOTING OWNERSHIP: MOA, PURPOSE: LU (ILLUMINATION) AND THE VOLTAGE.
 - PROVIDE ARC FLASH WARNING LABELS WITH INCIDENT ENERGY VALUES AND PERSONAL PROTECTIVE EQUIPMENT (PPE) ON EACH PIECE OF EQUIPMENT IN ACCORDANCE WITH NEC ARTICLE 110.16 AND NFPA 70E.

RECORD DRAWING

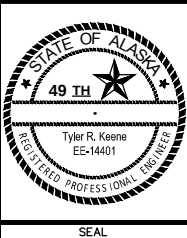
1. DATA PROVIDED BY: _____ TITLE: _____
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CONTRACTOR: _____ DATE: _____
BY: _____

2. DATA TRANSFERRED BY: _____ TITLE: _____
COMPANY: _____ DATE: _____
BY: _____

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DATA TRANSFER CHECKED BY: _____ TITLE: _____
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TOPOGRAPHY	TS	MJ
PROFILE	RB	JK
STORM SEWER	JH	JK
WATER/SANITARY SEWER	MV	JK
GAS	MV	JK
TELEPHONE	MV	JK
ELECTRIC	TK	BM
DESIGN	RB	JK
QUANTITIES	RB	JK
PRELIMINARY/FINAL	RB	JK
MUNICIPAL/STATE	RB	JK

FIELD BOOKS	BM NO.	LOCATION	ELEV.	REV	DATE	DESCRIPTION	BY
DESIGN CRW Books 147, 148, & 151	GAAB 66	See page D-24 of the MOA Benchmark Book	238.10				
	GAAB 96	See page D-26 of the MOA Benchmark Book	313.83				
STAKING							
ASBUILT							
CONTRACTOR							
INSPECTOR							
BASIS OF THIS DATUM GAAB 1972 ADJUST							
VERTICAL DATUM							
REVISIONS							



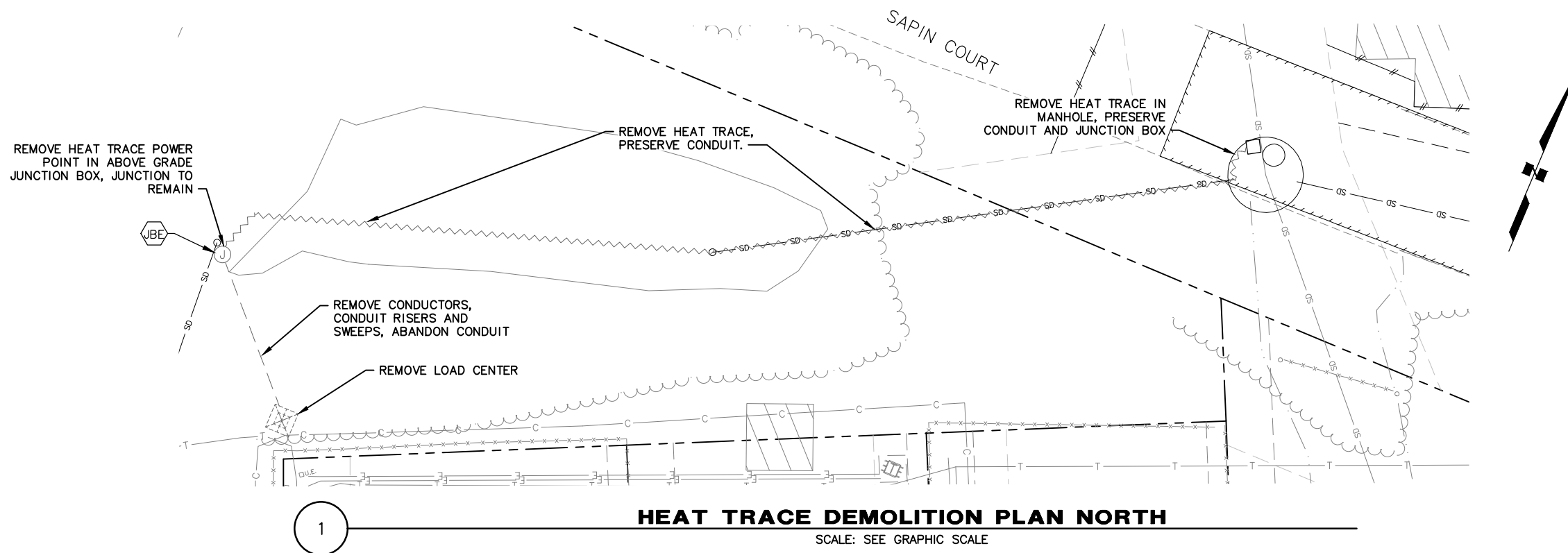
PROJECT MANAGEMENT AND ENGINEERING DEPARTMENT

14-50 IMAGE DRIVE / REFLECTION DRIVE AREA ROAD RECONSTRUCTION - PHASE 2 SCHED C

LC-T POWER ONE-LINE, PANEL SCHEDULE, AND CONTROL SCHEMATIC

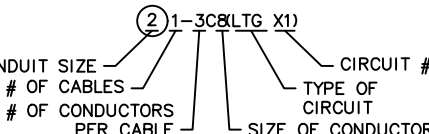
SCALE HOR. N/A VER. N/A GRID SW1638, SW1738 DATE SEPT 2019 STATUS 65% SHEET 19 of 19

NOTES:
1. SEE SHEET E3 FOR HEAT TRACE NOTES.



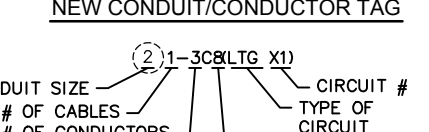
ELECTRICAL PLAN LEGEND	
EXISTING	PROPOSED
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	UNDERGROUND CONDUIT
	HEAT TRACE
	ELECTRIC JB TYPE IA
	ELECTRIC JB TYPE II
	ABOVE GRADE JUNCTION BOX
	LOAD CENTER
	HEAT TRACE END KIT

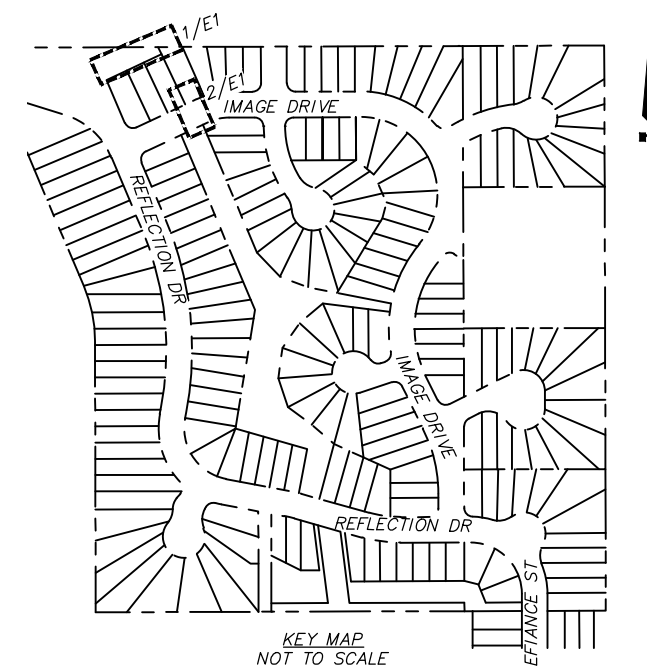
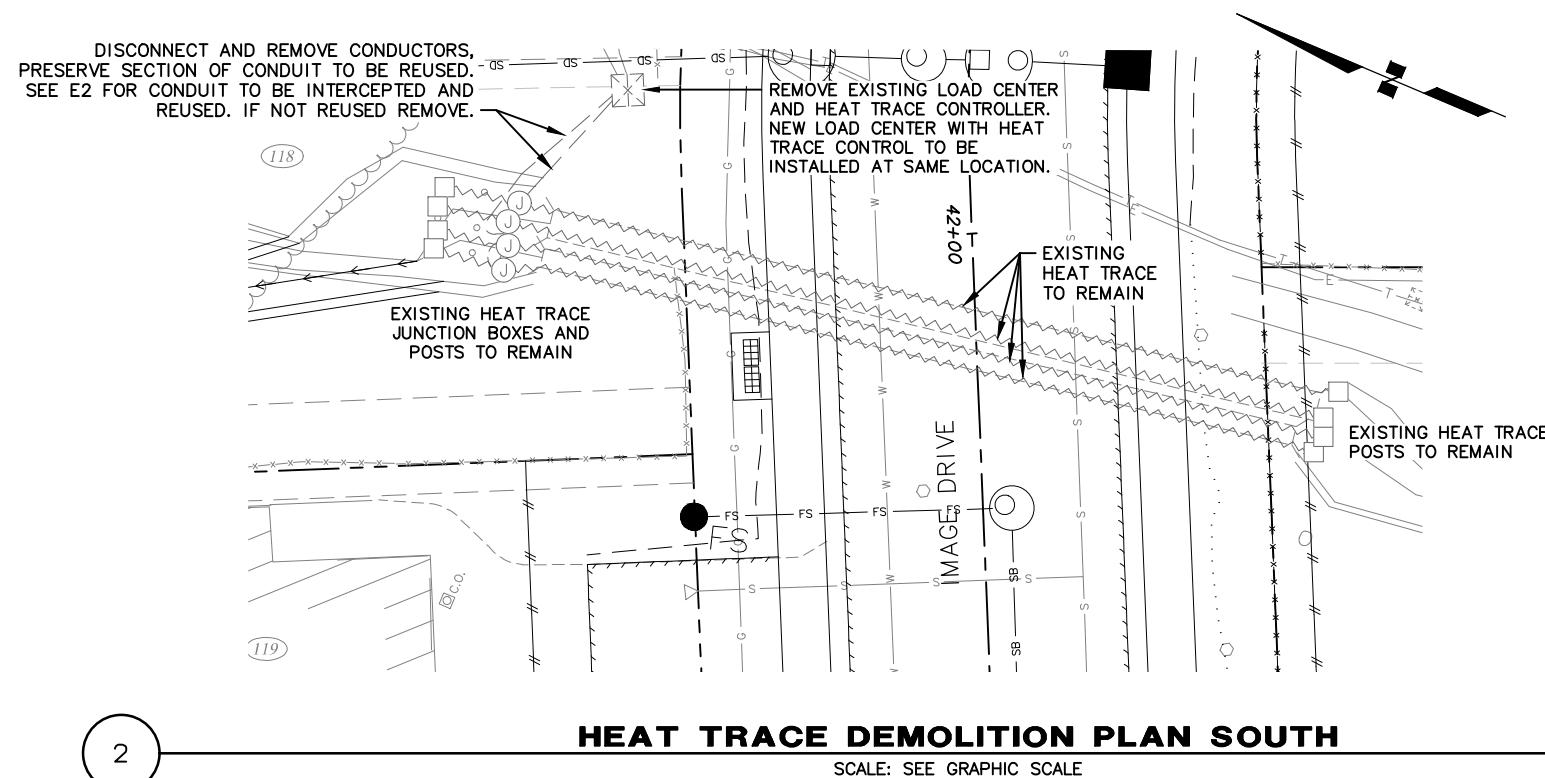


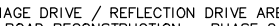
**NEW CONDUIT/CONDUCTOR TAG**



**EXISTING CONDUIT/  
NEW CONDUCTOR TAG**



<b>RECORD DRAWING</b> 1. DATA PROVIDED BY: _____ TITLE: _____ THIS WILL SERVE TO CERTIFY THAT THESE RECORD DRAWINGS ARE A TRUE AND ACCURATE REPRESENTATION OF THE PROJECT AS CONSTRUCTED. CONTRACTOR: _____ BY: _____ TITLE: _____ DATE: _____			2. DATA TRANSFERRED BY: _____ TITLE: _____ COMPANY: _____ DATE: _____			3. BASED ON PERIODIC FIELD OBSERVATIONS BY THE ENGINEER (OR AN INDIVIDUAL UNDER HIS/HER DIRECT SUPERVISION), THE CONTRACTOR—PROVIDED DATA APPEARS TO REPRESENT THE PROJECT AS CONSTRUCTED. DATA TRANSFER CHECKED BY: _____ TITLE: _____ COMPANY: _____ DATE: _____ BY: _____			<table border="1"> <tr> <th>DATA</th> <th>DRAWN BY</th> <th>CHECKED BY</th> </tr> <tr> <td>BASE</td> <td>TS</td> <td>MJ</td> </tr> <tr> <td>TOPOGRAPHY</td> <td>TS</td> <td>MJ</td> </tr> <tr> <td>PROFILE</td> <td>RB</td> <td>JK</td> </tr> <tr> <td>STORM SEWER</td> <td>JH</td> <td>JK</td> </tr> <tr> <td>WATER/SANITARY SEWER</td> <td>MV</td> <td>JK</td> </tr> <tr> <td>GAS</td> <td>MV</td> <td>JK</td> </tr> <tr> <td>TELEPHONE</td> <td>MV</td> <td>JK</td> </tr> <tr> <td>ELECTRIC</td> <td>TK</td> <td>EM</td> </tr> <tr> <td>DESIGN</td> <td>RB</td> <td>JK</td> </tr> <tr> <td>QUANTITIES</td> <td>RB</td> <td>JK</td> </tr> <tr> <td>PRELIMINARY/FINAL</td> <td>RB</td> <td>JK</td> </tr> <tr> <td>MUNICIPAL/STATE</td> <td>RB</td> <td>JK</td> </tr> </table>			DATA	DRAWN BY	CHECKED BY	BASE	TS	MJ	TOPOGRAPHY	TS	MJ	PROFILE	RB	JK	STORM SEWER	JH	JK	WATER/SANITARY SEWER	MV	JK	GAS	MV	JK	TELEPHONE	MV	JK	ELECTRIC	TK	EM	DESIGN	RB	JK	QUANTITIES	RB	JK	PRELIMINARY/FINAL	RB	JK	MUNICIPAL/STATE	RB	JK	  GRAPHIC SCALE    <table border="1"> <thead> <tr> <th colspan="2">FIELD BOOKS</th> <th>BM NO.</th> <th>LOCATION</th> <th>ELEV.</th> <th>REV</th> <th>DATE</th> <th>DESCRIPTION</th> <th>BY</th> </tr> </thead> <tbody> <tr> <td colspan="2">DESIGN CRW Books 147, 148, &amp; 151</td> <td>GAAB 66</td> <td>See page D—24 of the MOA Benchmark Book</td> <td>238.10</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td colspan="2">STAKING</td> <td>GAAB 96</td> <td>See page D—26 of the MOA Benchmark Book</td> <td>313.83</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td colspan="2">ASBUILT</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td colspan="2">CONTRACTOR</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td colspan="2">INSPECTOR</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td colspan="9">BASIS OF THIS DATUM GAAB 1972 ADJUST</td> </tr> </tbody> </table>			FIELD BOOKS		BM NO.	LOCATION	ELEV.	REV	DATE	DESCRIPTION	BY	DESIGN CRW Books 147, 148, & 151		GAAB 66	See page D—24 of the MOA Benchmark Book	238.10					STAKING		GAAB 96	See page D—26 of the MOA Benchmark Book	313.83					ASBUILT									CONTRACTOR									INSPECTOR									BASIS OF THIS DATUM GAAB 1972 ADJUST									  <b>CRW</b> ENGINEERING GROUP LLC   3940 ARCTIC BLVD, SUITE 300 ANCHORAGE, ALASKA 99503 PHONE: (907) 562-3252 #AEC1882-AK        STATE OF ALASKA 49 TH Tyler R. Keene EE-14401 REGISTERED PROFESSIONAL ENGINEER			  MUNICIPALITY OF ANCHORAGE        STATE OF ALASKA 49 TH Tyler R. Keene EE-14401 REGISTERED PROFESSIONAL ENGINEER		
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SHEET			E1 of E8																																																																																																																							





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HEAT TRACE CONSTRUCTION NOTES

1. PROVIDE A HEAT TRACE CONTROLLER IN THE LOAD CENTER ENCLOSURE AT EACH LOCATION INDICATED ON THE DRAWINGS. INSTALL THE ENCLOSURE WITH THE DOOR FACING THE ADJACENT STREET.

2. INSTALL RIGID STEEL CONDUIT WITH A #8 AWG EQUIPMENT GROUNDING CONDUCTOR AND TWO XHHW-2 CONDUCTORS FOR EACH HEAT TRACE CIRCUIT BETWEEN THE CONTROLLER ENCLOSURE AND THE SERVING JUNCTION BOX. SIZE CONDUCTORS AND CONDUIT AS SHOWN ON THE PLANS.

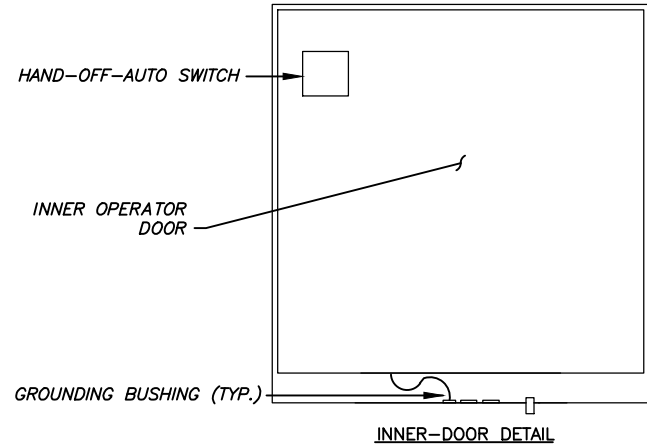
3. PROVIDE SEAL-OFF FITTINGS IN THE SERVING JUNCTION BOX ON THE CONDUITS THAT ENTER THE CULVERTS, PIPES, AND MANHOLES.
4. INSTALL HEAT TRACE CAUTION SIGNS, PER DETAIL 4/E4, AT EACH MANHOLE. EMBED MARKERS 24" IN SOIL.

5. INSTALL HEAT TRACE CONDUIT IN PIPES PER DETAILS 2/E4.

6. PROVIDE COMPLETED HEAT TRACE INSTALLATION RECORD (SEE MANUFACTURER'S INSTALLATION GUIDE FOR FORM) FOR FINAL ACCEPTANCE OF ALL HEAT TRACE RUNS.

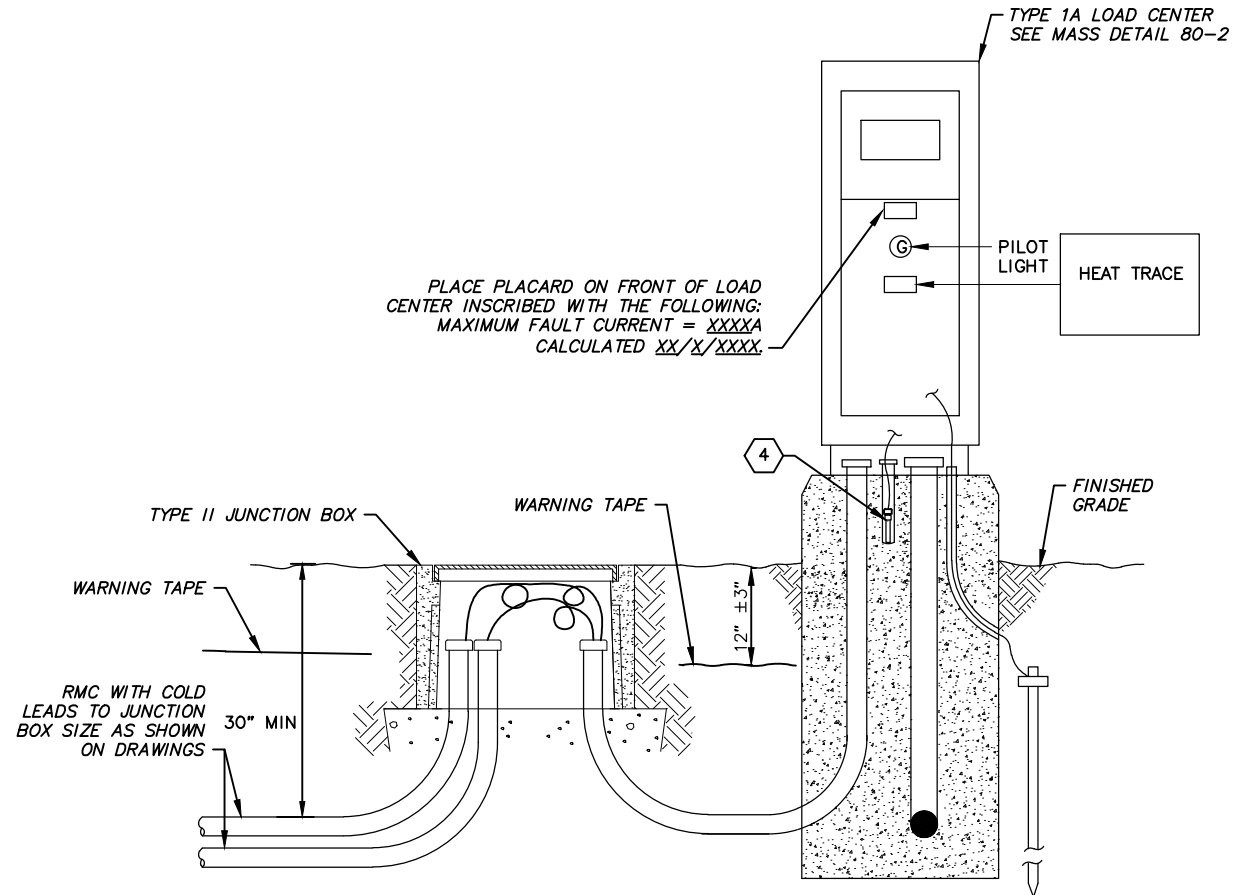
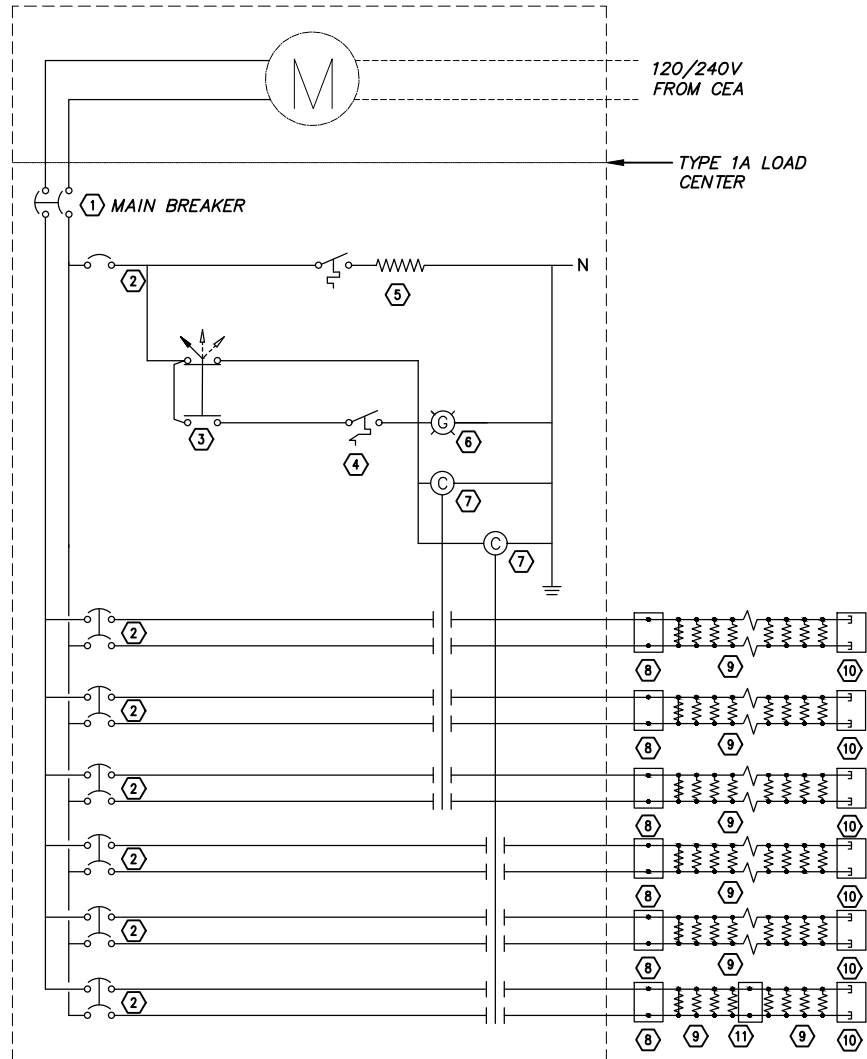
HEAT TRACE CONTROLLER MATERIALS LIST

- 1 2 POLE MAIN CIRCUIT BREAKER, SIZE AS SHOWN IN THE PANEL SCHEDULES.
- 2 15/1 CONTROL BREAKER AND CLASS B GROUND FAULT CIRCUIT INTERRUPTERS FOR HEAT TRACE CIRCUITS. HEAT TRACE CIRCUIT SIZES AS SHOWN IN THE PANEL SCHEDULES.
- 3 SELECTOR SWITCH: SINGLE POLE - 3 POSITION WITH CONTACTS RATED 10 AMPS AT 120 VOLTS. LABEL THE SWITCH "HEAT TRACE CONTROL" AND THE SWITCH POSITIONS H = "ON", O = "OFF", A = "THERMOSTAT"
- 4 REMOTE BULB THERMOSTAT: OPEN ON RISE, SPDT REMOTE BULB THERMOSTAT. WHITE RODGERS "1687-9" OR EQUAL.
- 5 ENCLOSURE HEATER: 800W THERMOSTATICALLY CONTROLLED 120V FAN-DRIVEN HEATER. HOFFMAN "D-AH8001B" OR EQUAL.
- 6 PILOT LIGHT: 120 VOLT LIGHT EMITTING DIODE LAMP WITH GREEN LENS, NEMA 4X RATED IN OUTER DOOR OF ENCLOSURE. LABEL "HEAT TRACE ON". PROVIDE A SPARE LAMP.
- 7 CONTACTOR: PROVIDE 60A CONTACTOR (NUMBER OF POLES AND CONTACTORS AS SHOWN IN LOAD CENTER SCHEDULE) WITH CONTACTS RATED 60 AMPS RESISTIVE AT 240 VOLTS AND A 120 VOLT CONTROL COIL.
- 8 SPLICE KIT: POWER TO HEAT TRACE CABLE, LISTED FOR WET LOCATIONS. INSTALL PER HEAT TRACE MANUFACTURER'S RECOMMENDATIONS.
- 9 HEAT TRACE CABLE: SELF-REGULATION LONG LINE TYPE LISTED FOR CLASS I, DIVISION 2 USE AND RATED AT 10 WATTS/FOOT AT 240 VOLTS. NELSON LT210-J OR EQUAL.
- 10 HEAT TRACE END KIT PER MANUFACTURER.



LOAD CENTER NOTES:

1. PLACARDS FOR LOAD CENTERS SHALL HAVE SUFFICIENT DURABILITY TO WITHSTAND THE ENVIRONMENT INVOLVED. CONTACT ENGINEER PRIOR TO ORDER OF PLACARD FOR MAXIMUM FAULT CURRENT.
2. LABEL THE FRONT WITH 3M SCOTCH CAL REFLECTIVE DECALS NOTING OWNERSHIP: MOA, PURPOSE: TH (THAW WIRE) AND THE VOLTAGE.
3. PROVIDE ARC FLASH WARNING LABELS WITH INCIDENT ENERGY VALUES AND PERSONAL PROTECTIVE EQUIPMENT (PPE) REQUIREMENTS ON EACH PIECE OF EQUIPMENT IN ACCORDANCE WITH NEC ARTICLE 110.16 AND NFPA 70E.



1 LOAD CENTER CONTROL SCHEMATIC  
NTS

2 HEAT TRACE LOAD CENTER  
NTS

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COMPANY: _____ DATE: _____

3. BASED ON PERIODIC FIELD OBSERVATIONS BY THE ENGINEER (OR AN INDIVIDUAL UNDER HIS/HER DIRECT SUPERVISION), THE CONTRACTOR-PROVIDED DATA APPEARS TO REPRESENT THE PROJECT AS CONSTRUCTED.

DATA TRANSFER CHECKED BY: _____ TITLE: _____

COMPANY: _____ DATE: _____

BY: _____

DATA	DRAWN BY	CHECKED BY
BASE		
TOPOGRAPHY		
PROFILE		
STORM SEWER		
WATER/SANITARY SEWER		
GAS		
TELEPHONE		
ELECTRIC		
DESIGN		
QUANTITIES		
PRELIMINARY/FINAL		
MUNICIPAL/STATE		

FIELD BOOKS	BM NO.	LOCATION	ELEV.	REV	DATE	DESCRIPTION	BY
DESIGN							
STAKING							
ASBUILT							
CONTRACTOR							
INSPECTOR							

BASIS OF THIS DATUM

PLAN CHECK	CONSTRUCTION RECORD	VERTICAL DATUM	REVISIONS	CONSULTANT	SEAL

CRW  
ENGINEERING GROUP, LLC

3940 ARCTIC BLVD, SUITE 300  
ANCHORAGE, ALASKA 99503  
PHONE: (907) 562-3252  
#AECCL882-AK

STATE OF ALASKA  
49 TH  
Tyler R. Keene  
EE-14401  
REGISTERED PROFESSIONAL ENGINEER

MUNICIPALITY OF ANCHORAGE

PROJECT MANAGEMENT AND ENGINEERING  
DEPARTMENT

14-50 IMAGE DRIVE / REFLECTION DRIVE AREA SCHED B  
ROAD RECONSTRUCTION - PHASE 2

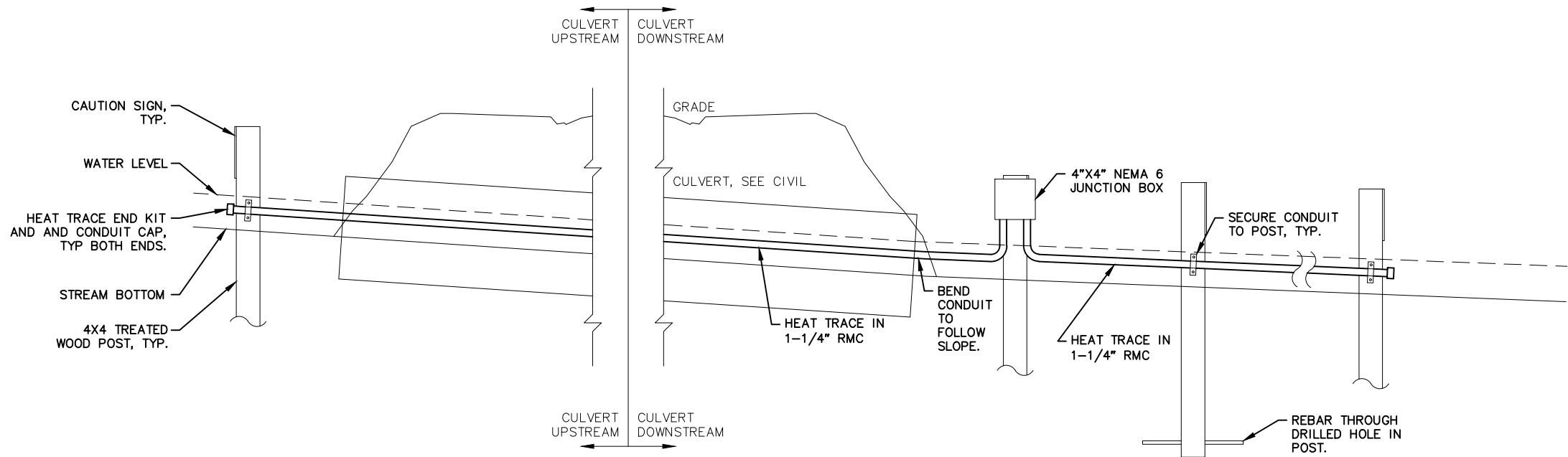
HEAT TRACE CONTROLS SCHEMATIC &  
DETAILS

SCALE HOR. N/A  
VER. N/A

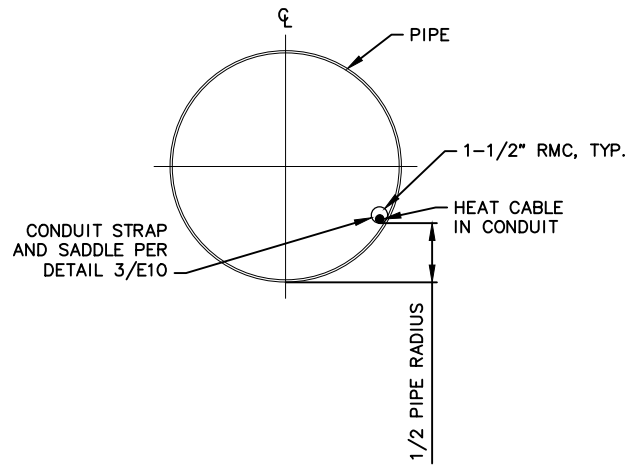
GRID SW1638, SW1738  
DATE SEPT 2019 STATUS 65%

E3 of E8  
SHEET

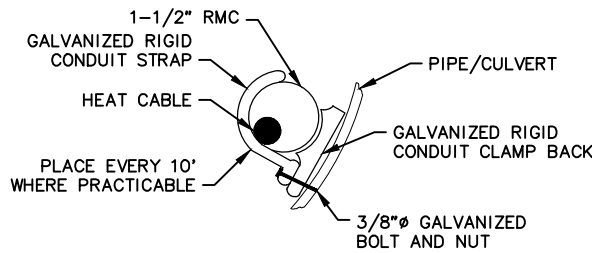
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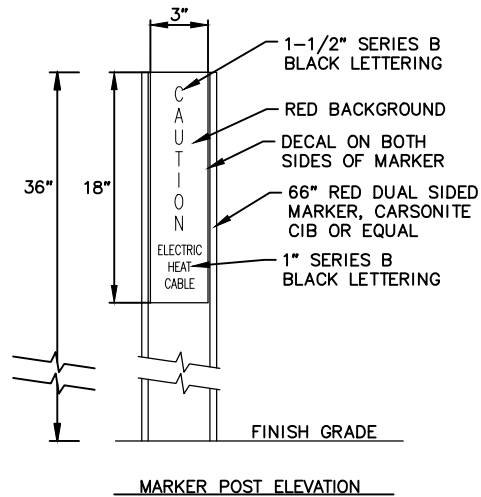
1 **EXISTING HEAT TRACE CULVERT DETAIL - IMAGE DRIVE**  
NTS



2 **HEAT TRACE MOUNTING DETAILS**  
NTS



3 **PIPE CONDUIT SADDLE & STRAP**  
NTS



4 **CAUTION SIGN DETAIL**  
NTS

<b>RECORD DRAWING</b>	
1. DATA PROVIDED BY: _____ TITLE: _____	
THIS WILL SERVE TO CERTIFY THAT THESE RECORD DRAWINGS ARE A TRUE AND ACCURATE REPRESENTATION OF THE PROJECT AS CONSTRUCTED.	
CONTRACTOR: _____	
BY: _____	TITLE: _____ DATE: _____
2. DATA TRANSFERRED BY: _____ TITLE: _____	
COMPANY: _____	DATE: _____
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COMPANY: _____	DATE: _____
BY: _____	

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TOPOGRAPHY		
PROFILE		
STORM SEWER		
WATER/SANITARY SEWER		
GAS		
TELEPHONE		
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QUANTITIES		
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FIELD BOOKS	BM NO.	LOCATION	ELEV.	REV	DATE	DESCRIPTION	BY
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ASBUILT							
CONTRACTOR							
INSPECTOR							
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VERTICAL DATUM							
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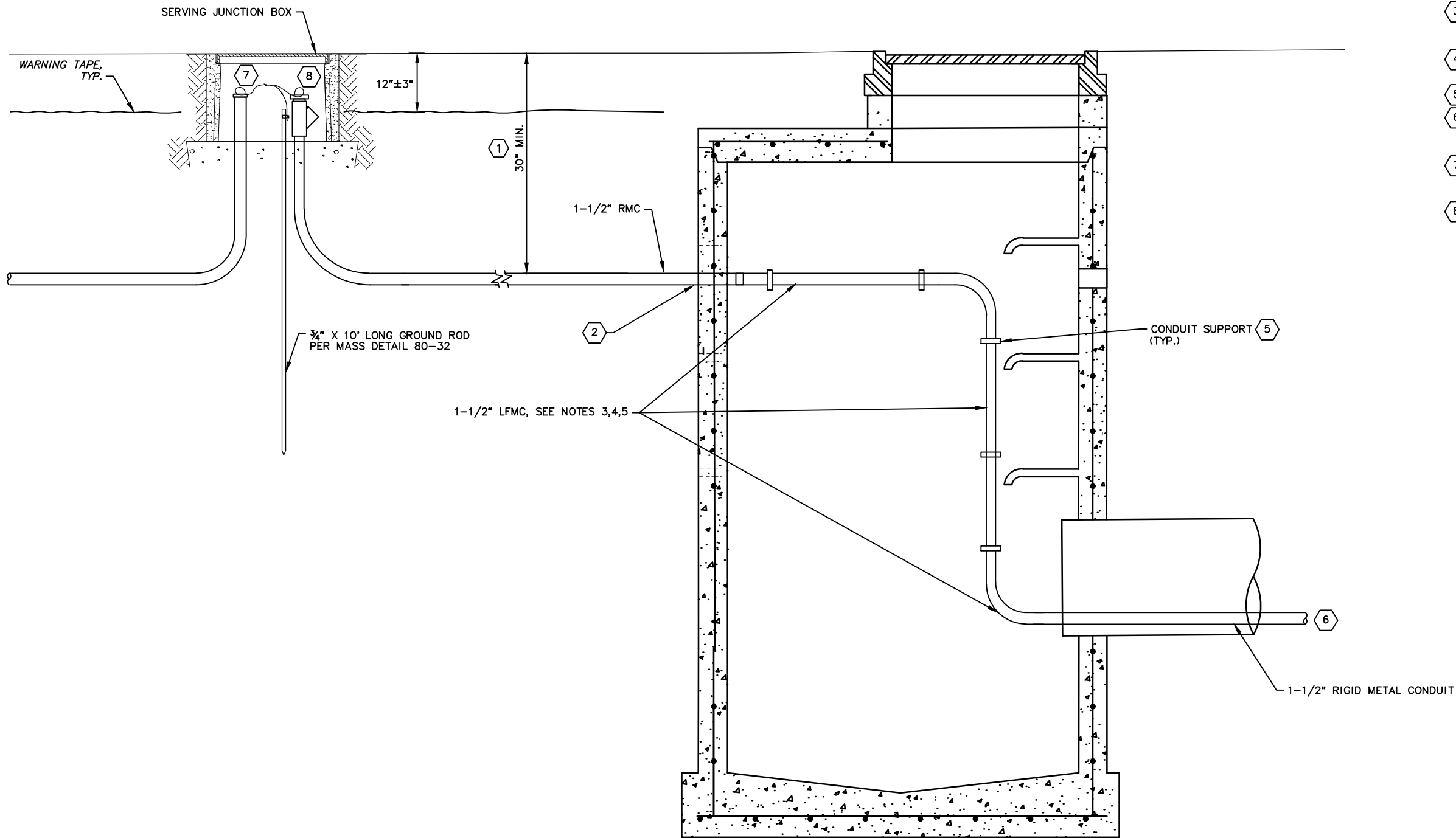
<b>CRW</b> ENGINEERING GROUP, LLC
3940 ARCTIC BLVD. SUITE 300 ANCHORAGE, ALASKA 99503 PHONE: (907) 562-3252 #AECLE882-AK

STATE OF ALASKA 49 TH Tyler R. Keene EE-14401 REGISTERED PROFESSIONAL ENGINEER
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MUNICIPALITY OF ANCHORAGE
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PROJECT MANAGEMENT AND ENGINEERING DEPARTMENT			
14-50	IMAGE DRIVE / REFLECTION DRIVE AREA ROAD RECONSTRUCTION - PHASE 2	SCHED B	
HEAT TRACE DETAILS			
SCALE	HOR. N/A VER. N/A	GRID SW1638, SW1738 DATE SEPT 2019	STATUS 65% SHEET E4 of E8

File: I:\JobData\10133.00 Image Reflection Area Reconstruction\00 CADD\01 Working Set\03 Electrical\Phase 2\Heat Trace\10133.00 HT Controls - Phase 2.dwg



MANHOLE HEAT TRACE CONSTRUCTION NOTES

- 1 INSTALL RIGID METAL CONDUITS (RMC) A MINIMUM OF 30 INCHES BELOW FINISHED GRADE.
- 2 CORE DRILL SEPARATE CONDUIT ACCESS HOLES FOR EACH CONDUIT THROUGH THE MANHOLE WALL AND GROUT AROUND THE INSTALLED CONDUIT.
- 3 PROVIDE 1-1/2" LIQUID-TIGHT FLEXIBLE METAL CONDUITS (LFMC) INSIDE THE MANHOLE. PROVIDE LFMC FITTINGS ON BOTH ENDS OF ALL SEGMENTS OF LFMC.
- 4 PROVIDE THE LFMC WITH A STAINLESS STEEL GROUND STRAP BETWEEN THE SECTIONS OF RMC.
- 5 ATTACH LFMC TO MANHOLE WALL ON 2.5' CENTERS.
- 6 PROVIDE 1-1/2" RMC WITH HEAT TRACE IN THE STORM DRAIN PIPES, EXTENDING THEM TO THE LOCATION(S) SHOWN IN THE DRAWINGS.
- 7 PROVIDE TYPE 2 OR TYPE 1A JUNCTION BOXES WITH GROUND ROD, GROUNDING BUSHINGS, AND GROUNDING PER MASS DETAIL 80-32 OR 80-31 AS SHOWN ON THE PLANS.
- 8 COMPLETE SPLICES BETWEEN HOT AND COLD LEADS IN THE JUNCTION BOX AND PROVIDE SEALING FITTINGS ON THE RMC.

1 NEW MANHOLE HEAT TRACE DETAIL  
NTS

<b>RECORD DRAWING</b>	
1. DATA PROVIDED BY: _____ TITLE: _____	
THIS WILL SERVE TO CERTIFY THAT THESE RECORD DRAWINGS ARE A TRUE AND ACCURATE REPRESENTATION OF THE PROJECT AS CONSTRUCTED.	
CONTRACTOR: _____	
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COMPANY: _____	DATE: _____
BY: _____	

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PROFILE		
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QUANTITIES		
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FIELD BOOKS	BM. NO.	LOCATION	ELEV.	REV	DATE	DESCRIPTION	BY
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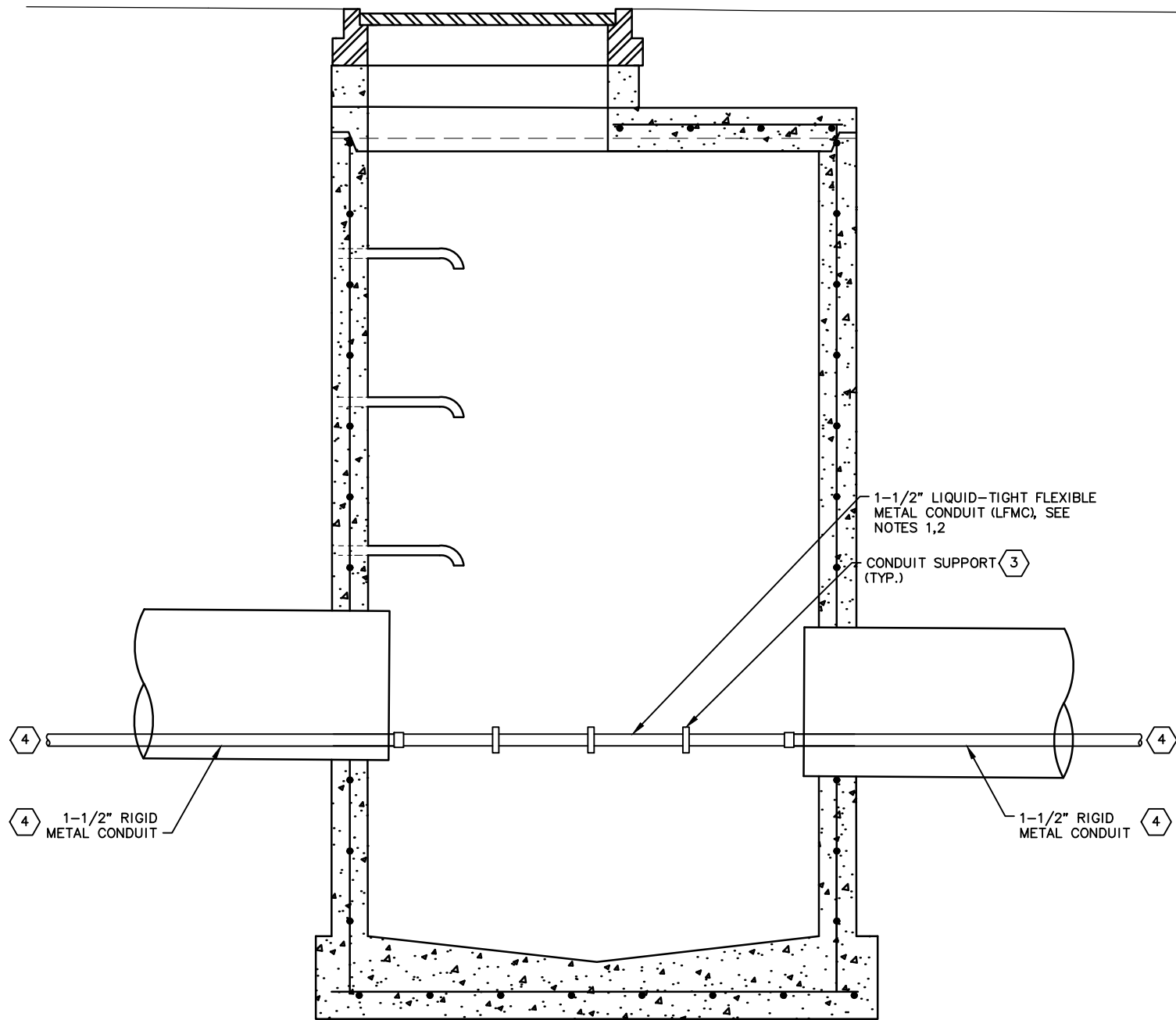
<b>CRW</b> ENGINEERING GROUP LLC
3940 ARCTIC BLVD. SUITE 300 ANCHORAGE, ALASKA 99503 PHONE: (907) 562-3252 #AECCL882-AK

STATE OF ALASKA 49 TH Tyler R. Keene EE-14401 REGISTERED PROFESSIONAL ELECTRICAL ENGINEER
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MUNICIPALITY OF ANCHORAGE
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PROJECT MANAGEMENT AND ENGINEERING DEPARTMENT	
14-50	IMAGE DRIVE / REFLECTION DRIVE AREA ROAD RECONSTRUCTION - PHASE 2
SCHED A	
NEW MANHOLE HEAT TRACE DETAIL	
SCALE HOR. N/A VER. N/A	GRID SW1638, SW1738 DATE SEPT 2019 STATUS 65% SHEET E5 of E8

File: I:\JobData\10133.00 Image Reflection Area Reconstruction\00 CADD\01 Working Set\03 Electrical\Phase 2\Heat Trace\10133.00 HT Controls - Phase 2.dwg



1 **MANHOLE HEAT TRACE PASS THROUGH DETAIL**  
NTS

MANHOLE HEAT TRACE CONSTRUCTION NOTES

- 1 PROVIDE 1-1/2" LIQUID-TIGHT FLEXIBLE METAL CONDUITS (LFMC) INSIDE THE MANHOLE. PROVIDE LFMC FITTINGS ON BOTH ENDS OF ALL SEGMENTS OF LFMC.
- 2 PROVIDE THE LFMC WITH A STAINLESS STEEL GROUND STRAP BETWEEN THE SECTIONS OF RIGID STEEL CONDUIT.
- 3 ATTACH LFMC TO MANHOLE WALL ON 2.5' CENTERS.
- 4 PROVIDE 1-1/2" RIGID STEEL CONDUIT IN THE STORM DRAIN PIPE(S), EXTENDING THEM TO THE LOCATIONS SHOWN IN THE DRAWINGS.

<b>RECORD DRAWING</b>	
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GAS		
TELEPHONE		
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QUANTITIES		
PRELIMINARY/FINAL		
MUNICIPAL/STATE		

FIELD BOOKS	BM. NO.	LOCATION	ELEV.	REV	DATE	DESCRIPTION	BY
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INSPECTOR							
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PLAN CHECK	CONSTRUCTION RECORD	VERTICAL DATUM		REVISIONS		CONSULTANT	SEAL

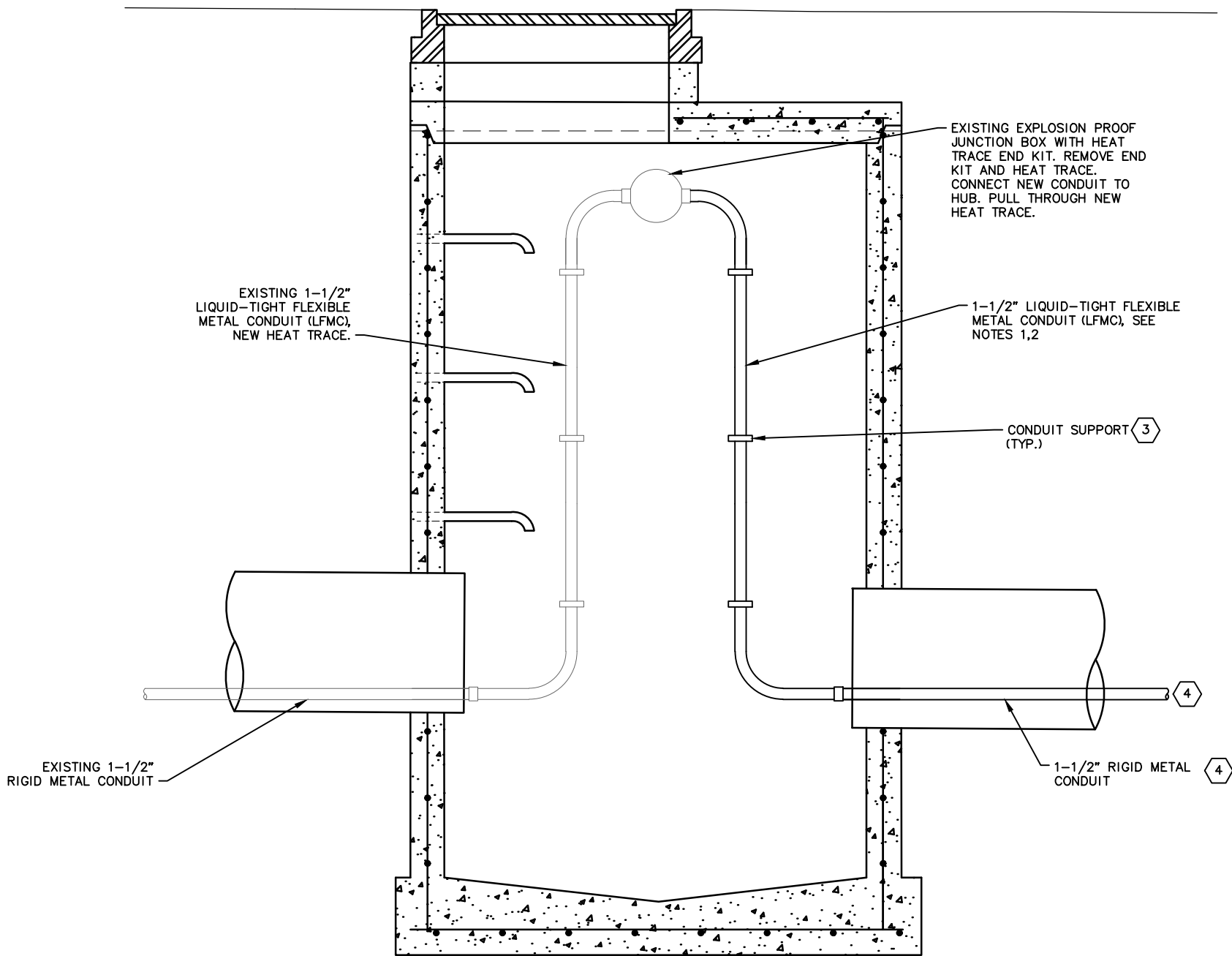
<b>CRW</b> ENGINEERING GROUP, LLC 3940 ARCTIC BLVD. SUITE 300 ANCHORAGE, ALASKA 99503 PHONE: (907) 562-3252 #AECCL882-AK
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<b>STATE OF ALASKA</b> 49 TH Tyler R. Keene EE-14401 REGISTERED PROFESSIONAL ENGINEER
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<b>MUNICIPALITY OF ANCHORAGE</b>
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<b>PROJECT MANAGEMENT AND ENGINEERING DEPARTMENT</b>			
14-50	IMAGE DRIVE / REFLECTION DRIVE AREA ROAD RECONSTRUCTION - PHASE 2	SCHED A	
<b>NEW MANHOLE HEAT TRACE PASS THOUGH DETAIL</b>			
SCALE HOR. N/A VER. N/A	GRID SW1638, SW1738 DATE SEPT 2019	STATUS 65%	SHEET E6 of E8

File: I:\JobData\10133.00 Image Reflection Area Reconstruction\00 CADD\01 Working Set\03 Electrical\Phase 2\Heat Trace\10133.00 HT Controls - Phase 2.dwg



1 **EXISTING MANHOLE HEAT TRACE DETAIL**  
NTS

MANHOLE HEAT TRACE CONSTRUCTION NOTES

- 1 PROVIDE 1-1/2" LIQUID-TIGHT FLEXIBLE METAL CONDUITS (LFMC) INSIDE THE MANHOLE. PROVIDE LFMC FITTINGS ON BOTH ENDS OF ALL SEGMENTS OF LFMC.
- 2 PROVIDE THE LFMC WITH A STAINLESS STEEL GROUND STRAP BETWEEN THE SECTIONS OF RIGID STEEL CONDUIT.
- 3 ATTACH LFMC TO MANHOLE WALL ON 2.5' CENTERS.
- 4 PROVIDE 1-1/2" RIGID STEEL CONDUIT IN THE STORM DRAIN PIPE(S), EXTENDING THEM TO THE LOCATIONS SHOWN IN THE DRAWINGS.

<b>RECORD DRAWING</b>	
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STAKING							
ASBUILT							
CONTRACTOR							
INSPECTOR							
BASIS OF THIS DATUM							
PLAN CHECK							
CONSTRUCTION RECORD							
VERTICAL DATUM							
REVISIONS							

<b>CRW</b> ENGINEERING GROUP LLC
3940 ARCTIC BLVD. SUITE 300 ANCHORAGE, ALASKA 99503 PHONE: (907) 562-3252 #AECLE882-AK

STATE OF ALASKA 49 TH Tyler R. Keene EE-14401 REGISTERED PROFESSIONAL ENGINEER
SEAL

MUNICIPALITY OF ANCHORAGE
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PROJECT MANAGEMENT AND ENGINEERING DEPARTMENT			
14-50	IMAGE DRIVE / REFLECTION DRIVE AREA ROAD RECONSTRUCTION - PHASE 2	SCHED A	
EXISTING MANHOLE HEAT TRACE DETAIL			
SCALE	HOR. N/A VER. N/A	GRID SW1638, SW1738 DATE SEPT 2019	STATUS 65% SHEET E7 of E8



PROJECT MANAGEMENT AND ENGINEERING DEPARTMENT				
14-50		IMAGE DRIVE / REFLECTION DRIVE AREA ROAD RECONSTRUCTION - PHASE 2		SCHED B
HEAT TRACE LOAD CENTER SCHEDULE & ONE-LINE				
SCALE	HOR. N/A VER. N/A	GRID SW1638, SW1738		E8 of E8
		DATE SEPT 2019	STATUS 65%	
		SHEET		