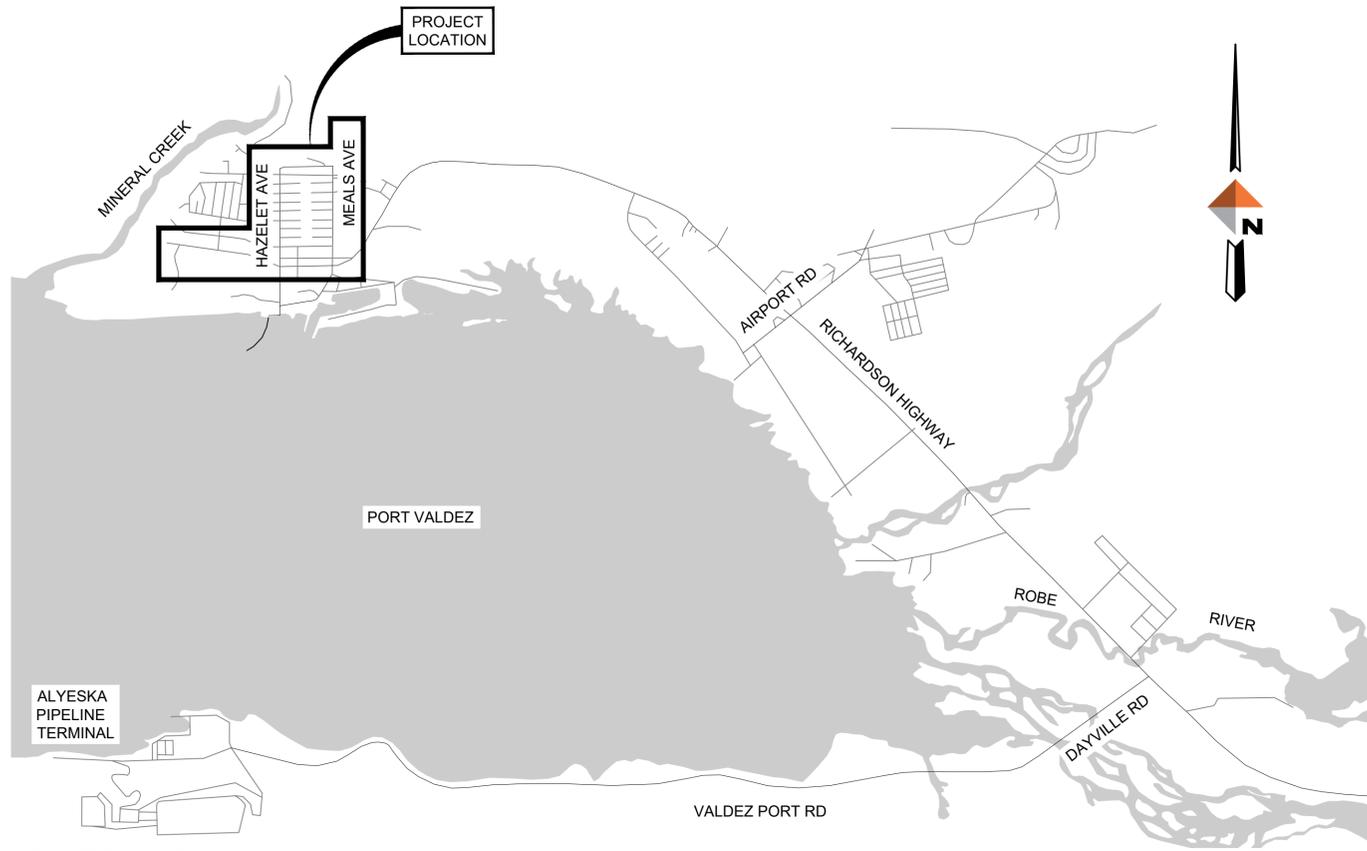


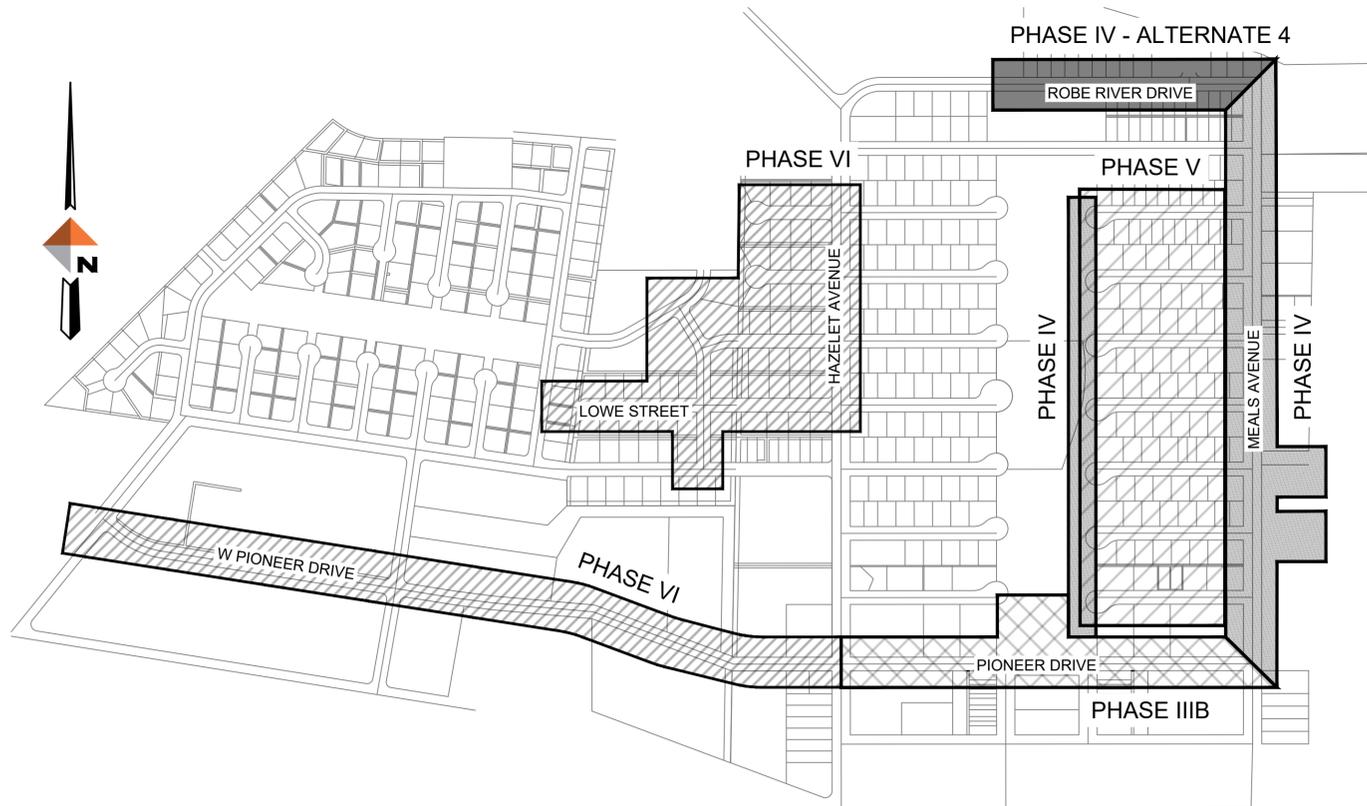
# VALDEZ PAVEMENT REHABILITATION

## PHASE IV-ROBE RIVER DRIVE - ALTERNATE 4

### PROJECT NUMBER 22-310-1115



LOCATION MAP  
VALDEZ, AK



VICINITY MAP

#### SHEET INDEX

SHEET NO.	SHEET
G-001	COVER SHEET
G-002	NOTES, LEGEND, AND ABBREVIATIONS
G-003	SITE PLAN AND KEY MAP
G-004	SURVEY CONTROL
C-101	TYPICAL SECTIONS
C-110	SUMMARY TABLES
C-111	SUMMARY TABLES
C-201 TO C-203	PLAN AND PROFILE
C-301	INTERSECTION GRADING
C-401 TO C-405	DETAILS
C-501 TO C-503	SIGNING AND STRIPING
C-601 TO C-602	EROSION AND SEDIMENT CONTROL PLAN
E-001	ELECTRICAL LEGEND, SCHEDULES, AND CALCULATIONS
E-002	ELECTRICAL SPECIFICATIONS
E-003	ELECTRICAL DETAILS
E-004	ELECTRICAL SITE PLAN AND OVERALL MAP
E-101	ELECTRICAL DEMOLITION PLANS
E-201	ELECTRICAL PLANS

REV	DATE	DESCRIPTION



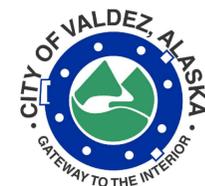
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VALDEZ PAVEMENT REHABILITATION  
PHASE IV-ROBE RIVER DRIVE - ALTERNATE 4  
COVER SHEET

VALDEZ, ALASKA

PREPARED FOR:



PREPARED BY:



5015 Business Park Blvd, Suite 4000  
Anchorage, Alaska 99503  
907-562-2000

PROJECT	63461.01
DATE	01/16/2026

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G-001

**GENERAL NOTES**

- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CITY OF VALDEZ, 2003 STANDARD CONSTRUCTION SPECIFICATIONS AND STANDARD DETAILS.
- EXISTING GROUND CONTOURS BASED ON DOWL TOPOGRAPHIC SURVEY PERFORMED JUNE, 2022. CONTRACTOR SHALL VERIFY SITE CONDITIONS.
- SOILS INFORMATION IS DERIVED FROM SOILS INVESTIGATION PERFORMED BY DOWL. SEE GEOTECHNICAL REPORT DATED JULY, 2022 AND TITLED VALDEZ PAVEMENT REHABILITATION, PHASES IV-VI, VALDEZ, ALASKA GEOTECHNICAL EXPLORATION AND RECOMMENDATIONS.
- LOCATIONS OF EXISTING UTILITIES ARE APPROXIMATE ONLY. THE CONTRACTOR SHALL VERIFY LOCATIONS BY OBTAINING UTILITY LOCATES PRIOR TO BEGINNING CONSTRUCTION. COORDINATE UTILITY RELOCATION WITH SERVICE PROVIDERS. EXERCISE CAUTION DURING EXCAVATION.
- VERIFY HORIZONTAL AND VERTICAL LOCATIONS OF ALL UTILITIES ENCOUNTERED DURING CONSTRUCTION, RECORD LOCATIONS AND CHANGES TO UTILITIES IN SURVEY NOTES AND ON AS BUILT DRAWINGS.
- VERIFY INVERTS AND LOCATIONS OF ALL UTILITY CONNECTION POINTS PRIOR TO INSTALLING PIPE. REPORT DISCREPANCIES FROM PLANS IMMEDIATELY TO OWNER'S REPRESENTATIVE.
- ADJUST ALL EXISTING MANHOLES AND VALVE BOXES, WITHIN THE LIMITS OF CONSTRUCTION, TO 1/2" BELOW FINISHED GRADE.
- ELEVATIONS SHOWN ARE TO PIPE INVERT, FLOW LINE, OR FINISH PAVEMENT SURFACE, UNLESS NOTED OTHERWISE.
- DIMENSIONS SHOWN ARE TO EDGE OF PAVEMENT, GRADE BREAK, EDGE OF CONCRETE, BACK OF CURB, OR FACE OF SIDEWALK UNLESS NOTED OTHERWISE.
- ALL CURB RADII ARE MEASURED AT THE BACK OF CURB, EDGE OF CONCRETE, OR FACE OF SIDEWALK.
- RESTORE ALL DISTURBED PROPERTY OUTSIDE OF WORK LIMITS TO ORIGINAL CONDITIONS.
- DEWATERING MAY BE REQUIRED FOR ALL EXCAVATIONS THAT PENETRATE THE GROUND WATER SURFACE. WATER RESULTING FROM CONTRACTOR'S DEWATERING EFFORT MAY NOT BE PUMPED OR OTHERWISE DIVERTED INTO EXISTING STORM DRAINS UNLESS REQUIRED PERMITS, INCLUDING BUT NOT LIMITED TO, THE ALASKA DEPARTMENT OF ENVIRONMENTAL CONSERVATION, AND ENVIRONMENTAL PROTECTION AGENCY ARE OBTAINED BY THE CONTRACTOR. UNDER NO CIRCUMSTANCES WILL THE CONTRACTOR BE ALLOWED TO DIVERT WATER FROM THE EXCAVATION ONTO ROADWAYS. CONTRACTOR SHALL PROVIDE DISPOSAL SITE FOR EXCESS WATER AND SHALL BE RESPONSIBLE FOR ALL NECESSARY PERMITS AND APPROVALS. CONTRACTOR SHALL PROVIDE COPIES OF PERMITS AND APPROVAL TO THE ENGINEER.
- THE CONTRACTOR SHALL FOLLOW ALL CITY REGULATIONS FOR NOISE, HOURS OF OPERATIONS, AND DUST CONTROL.
- THE AUTOCAD FILE FOR THIS SITE PLAN WILL BE PROVIDED TO THE CONSTRUCTION SURVEYOR FOR USE IN STAKING THE LOCATION OF THE SITE IMPROVEMENTS. LAYOUT INFORMATION IS PROVIDED IN THIS PLAN SET FOR THE SURVEYOR TO CHECK AGAINST. THE SURVEYOR SHALL INFORM THE ENGINEER OF ANY DISCREPANCIES IMMEDIATELY.
- THE CONTRACTOR SHALL PROVIDE CONTROLS TO LIMIT SEDIMENT DISCHARGE DUE TO SOIL EROSION. THESE CONTROLS SHALL INCLUDE REGULAR SWEEPING OF STREETS ADJACENT TO THE SITE THAT ACCUMULATE SITE SOILS. ADDITIONAL CONTROLS MAY BE REQUIRED IF THESE MEASURES PROVE INADEQUATE. THE CONTRACTOR SHALL IMPLEMENT A STORM WATER POLLUTION PREVENTION PLAN (SWPPP).
- KEEP SITE FREE OF LITTER.
- THE CONTRACTOR SHALL ENSURE UNINTERRUPTED GARBAGE PICKUP AND MAIL SERVICE TO ALL RESIDENCES IMPACTED BY THIS PROJECT.
- ALL EXISTING PIPES (6-INCH DIAMETER AND LARGER) TO BE ABANDONED WITHIN THE ROADWAY CORRIDOR SHALL BE REMOVED AND DISPOSED OF, OR FILLED WITH CEMENTITIOUS SLURRY, UNLESS OTHERWISE NOTED.
- THE CONTRACTOR SHALL MAINTAIN RECORD DRAWINGS ON-SITE, AND SHALL KEEP DAILY REDLINES FOR ANY CHANGES TO THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL ALSO RECORD HORIZONTAL AND VERTICAL LOCATIONS FOR ALL UTILITIES NOT SHOWN ON THE PLANS, BUT ENCOUNTERED DURING THE WORK.
- EXISTING PIPE LOCATIONS ARE DERIVED FROM SURVEY RECORD DRAWINGS, UTILITY LOCATES, OR APPROXIMATED FROM AVAILABLE INFORMATION. ACTUAL LOCATIONS MAY VARY FROM THOSE SHOWN. DEPTHS OF EXISTING PIPES SHOWN ON THE PROFILE ARE APPROXIMATE ONLY. THE CONTRACTOR SHALL CALL OR REQUEST LOCATES PRIOR TO CONSTRUCTION AND SHALL FIELD-VERIFY ALL PIPE AND UTILITY LOCATIONS. ANY DAMAGE TO THE EXISTING PIPES AND UTILITIES IDENTIFIED SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- THE CONTRACTOR SHALL NOTIFY THE CITY OF VALDEZ WATER DEPARTMENT (907-835-4888) OF ANY WATER MAIN INTERRUPTIONS AND SHALL COORDINATE ALL VALVE OPERATION WITH CITY OF VALDEZ.
- THE UTILITY COMPANIES MAY CONDUCT WORK WITHIN THE PROJECT LIMITS TO RELOCATE AND UPGRADE THEIR RESPECTIVE SYSTEMS. THE CONTRACTOR SHALL COORDINATE ITS ACTIVITIES WITH EACH UTILITY AND PROVIDE ACCESS AS NECESSARY FOR THE UTILITIES TO CONDUCT THEIR WORK.
- THE PLAN SHEETS DO NOT SHOW ALL OF THE TREES AND OTHER VEGETATION WITHIN THE PROJECT LIMITS. NO TREES OR OTHER VEGETATION SHALL BE REMOVED OR DAMAGED, UNLESS SHOWN ON THE DRAWINGS, OR AS DIRECTED BY THE ENGINEER.
- THE CONTRACTOR SHALL NOT STORE MATERIALS OR EQUIPMENT, OR OPERATE EQUIPMENT WITH ITS TRACKS OR WHEELS PLACED ON PRIVATE PROPERTY, WITHOUT WRITTEN APPROVAL FROM THE OWNER.
- THE CONTRACTOR SHALL NOTIFY EACH AFFECTED RESIDENT OF EACH VEHICULAR DRIVEWAY CLOSURE, AND THE ANTICIPATED DURATION OF THE CLOSURE, ON THE DAY PRECEDING EACH CLOSURE. NO WORK SHALL BE PERFORMED WITHIN THE DRIVEWAY, WHETHER IN THE PUBLIC RIGHT OF WAY OR NOT, UNTIL THIS CONDITION HAS BEEN MET.
- "JUMPING JACK" OR SIMILAR TYPE COMPACTORS SHALL BE USED TO THOROUGHLY COMPACT ALL LAYERS OF MATERIAL AROUND WATER VALVE BOXES, CATCH BASINS, AND MANHOLES AND OTHER STRUCTURES, THAT CANNOT BE COMPACTED WITH LARGER COMPACTION EQUIPMENT.
- BEGIN SUBCUTS AT 24-INCHES FROM PAVEMENT SAWCUT LINES AT STREET CONNECTIONS, UNLESS OTHERWISE SHOWN ON THE DRAWINGS, OR DIRECTED BY THE ENGINEER. REMOVE AND REPLACE THE LEVELING COURSE TO WITHIN 12-INCHES OF THE SAWCUT LINE, AND DO NOT MAKE FINAL SAWCUT UNTIL THE DAY OF PAVING. APPLY TACK COAT TO THE FINAL SAWCUT PRIOR TO PAVING.
- MINOR REVISIONS TO ROADWAY GRADING AND ALIGNMENT, AS WELL AS STORM DRAIN CULVERT ALIGNMENT AND GRADES, SHALL BE PERFORMED AS DIRECTED BY THE ENGINEER.
- THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY ORGANIC OR FROST-SUSCEPTIBLE MATERIAL ENCOUNTERED AT THE BOTTOM OF THE SUBCUT LIMITS OR WITHIN THE TRENCHING OPERATIONS.

**ABBREVIATIONS**

AC	ASPHALT CONCRETE
ADA	AMERICANS WITH DISABILITIES ACT
ADD ALT	ADDITIVE ALTERNATE
AIP	APPLY IN PLACE
BOP	BEGINNING OF PROJECT
BOT	BOTTOM
BS	BOTTOM OF STEP
C&G	CURB AND GUTTER
CB	CATCH BASIN
CBMH	CATCH BASIN MANHOLE
CL	CENTER LINE
CMP	CORRUGATED METAL PIPE
CIPP	CURED IN PLACE PIPE
COMM	COMMUNICATIONS
CONC	CONCRETE
COV	CITY OF VALDEZ
CPEP	CORRUGATED POLYETHYLENE PIPE
CTE	CONNECT TO EXISTING
DI	DUCTILE IRON
DIA	DIAMETER
EL	ELEVATION
EOP	END OF PROJECT
ESCP	EROSION AND SEDIMENT CONTROL PLAN
FH	FIRE HYDRANT
FL	FLOW LINE
FG	FINISHED GRADE
GV	GATE VALVE
INV	INVERT
LF	LINEAR FEET
LG	LIP OF GUTTER
LT	LEFT
MAX	MAXIMUM
MH	MANHOLE
MN	MAGNETIC NAIL
ME	MATCH TO EXISTING
MUTCD	MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES
NO	NUMBER
NTS	NOT TO SCALE
PC	POINT OF CURVATURE
PCC	PORTLAND CEMENT CONCRETE
PT	POINT OF TANGENT
PVI	POINT OF VERTICAL INTERSECTION
POC	POINT ON CURVE
PRC	POINT OF REVERSE CURVATURE
PST	PERFORATED STEEL TUBE
PVC	POLYVINYL CHLORIDE PIPE
RMP	RAMP
ROW	RIGHT-OF-WAY
RSS	REDUCED SUBGRADE STRENGTH
RT	RIGHT
SDMH	STORM DRAIN MANHOLE
SHLD	SHOULDER
SS	SANITARY SEWER
SSMH	SANITARY SEWER MANHOLE
STA	STATION
STD	STANDARD
TBC	TOP BACK OF CURB
TBVG	TOP BACK OF VALLEY GUTTER
TCONC	TOP OF CONCRETE
TP	TOP OF PAVEMENT
TS	TOP OF STEP
TSW	TOP OF SIDEWALK
TTCP	TEMPORARY TRAFFIC CONTROL PLAN
TYP	TYPICAL
UD	UNDER DRAIN
UON	UNLESS OTHERWISE NOTED
W	WATER
WV	WATER VALVE

**ALIGNMENT ABBREVIATIONS**

AL	ALATNA
BR	BREMNER
CH	CHENA
DA	DADINA
EK	EKLUTNA
FO	FORAKER
GU	GULKANA
LO	LOWE
ME	MENDELTONA
NA	NABESNA
OU	OUMALIK
PA	PACIFIC
PE	PIONEER (EAST)
PW	PIONEER (WEST)
RR-ML	ROBE RIVER-MEALS
TGR	TEMPORARY GRAVEL ROAD

**LEGEND**

DESCRIPTION	EXISTING	PROPOSED
SURVEY MONUMENT		
SURVEY POINT NUMBER		
TESTBORE		
FIELD DRAIN		
CATCH BASIN		
STORM MANHOLE		
TYPE III STORM MANHOLE		
SEWER MANHOLE		
SEWER CLEANOUT		
TRANSFORMER		
LIGHT POLE		
UTILITY JUNCTION BOX		
ELECTRIC METER		
COMMUNICATION MANHOLE		
COMMUNICATION PEDESTAL		
FIBER HANDHOLE		
FIBER VAULT		
FIRE HYDRANT		
WATER VALVE		
GAS METER		
BOLLARD/POST		
SIGN		
DECIDUOUS TREE		
CONIFEROUS TREE		
BUILDING OUTLINE		
BUILDING OVERHANG		
CONCRETE		
WALL		
ROCK PILE		
ADA PAD		
FENCE LINE		
MAJOR CONTOUR (5 FOOT)		
MINOR CONTOUR (1 FOOT)		
COMMUNICATION LINE		
FIBER OPTIC LINE		
ELECTRIC LINE		
GAS LINE		
WATER LINE		
SEWER LINE		
STORM DRAIN LINE		
BOUNDARY LINE		
EASEMENT LINE		
ADJACENT PROPERTY LINE		
RIGHT OF WAY LINE		
RIGHT OF WAY CENTERLINE		
EDGE OF ASPHALT		
EDGE OF GRAVEL		
EDGE OF ROAD W/CURBING		
DISTURBANCE LIMITS		

REV	DATE	DESCRIPTION



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VALDEZ PAVEMENT REHABILITATION  
 PHASE IV-ROBE RIVER DRIVE - ALTERNATE 4  
 NOTES, LEGEND, AND ABBREVIATIONS  
 VALDEZ, ALASKA

PROJECT	63461.01
DATE	01/16/2026

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**G-002**

**BEFORE YOU DIG  
 CALL FOR FREE  
 UNDERGROUND  
 LOCATION**

Locate Call Center of Alaska  
 Anchorage Area.....278-3121  
 Statewide.....800-478-3121  
 who will notify subscribed utilities only.  
 Other utilities need to be contacted  
 individually.

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**TRAFFIC CONTROL AND PHASING**

**GENERAL**

- A. ALL STAGING AREAS USED SHALL BE RESTORED TO EQUAL OR BETTER CONDITION AT THE COMPLETION OF THE PROJECT PHASE.
- B. ALL TRAFFIC CONTROL OPERATIONS SHALL BE IMPLEMENTED IN ACCORDANCE WITH THE LATEST EDITION OF THE ALASKA TRAFFIC MANUAL AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD). ALL SIGNS SHALL BE FABRICATED IN ACCORDANCE WITH THE LATEST EDITIONS OF THE ALASKA SIGN SPECIFICATIONS AND THE MUTCD.
- C. TEMPORARY TRAFFIC CONTROL (TTC) PLANS FOR EACH PHASE AND FOR SPECIFIC CONSTRUCTION ACTIVITIES THAT CANNOT BE EXECUTED WITHIN A PARTICULAR PHASE TTC, SHALL BE PREPARED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER AT LEAST 7 DAYS IN ADVANCE OF THE WORK UNLESS OTHERWISE APPROVED BY THE ENGINEER.
- D. TEMPORARY TRAFFIC LANES SHALL BE A MINIMUM OF 10-FT WIDE.
- E. WHEN CONSTRUCTION ACTIVITIES REQUIRE THE CLOSURE OF THE EXISTING OR NEW SIDEWALKS, ALTERNATIVE PEDESTRIAN ROUTES THROUGH OR AROUND THE ACTIVE CONSTRUCTION ZONE SHALL BE ESTABLISHED.
- F. WITH THE EXCEPTION OF CONCRETE POURS AND DRIVEWAY WORK VEHICULAR ACCESS SHALL BE MAINTAINED TO EACH LOT WITHIN THE PROJECT LIMITS AT ALL TIMES.

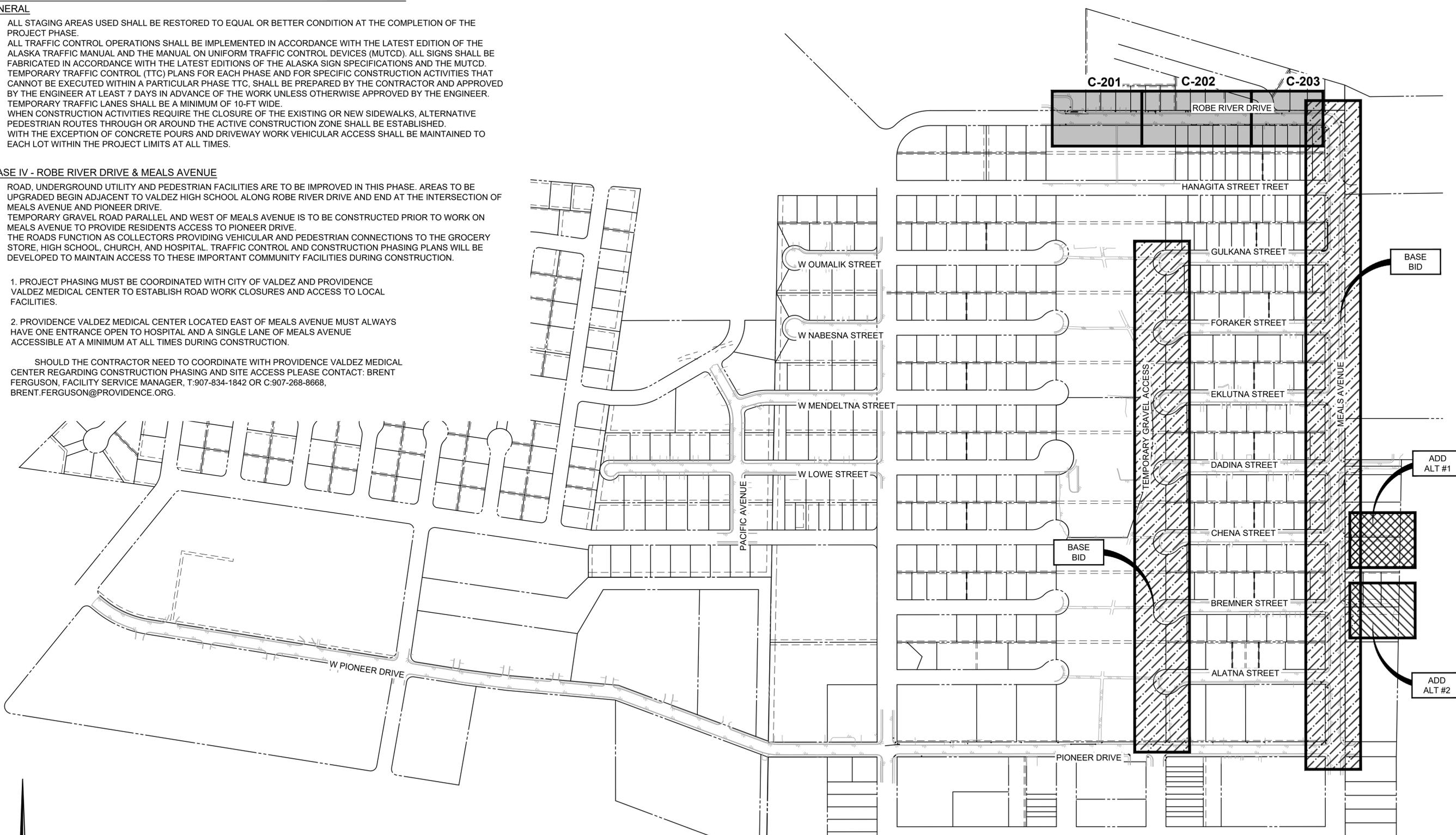
**PHASE IV - ROBE RIVER DRIVE & MEALS AVENUE**

- A. ROAD, UNDERGROUND UTILITY AND PEDESTRIAN FACILITIES ARE TO BE IMPROVED IN THIS PHASE. AREAS TO BE UPGRADED BEGIN ADJACENT TO VALDEZ HIGH SCHOOL ALONG ROBE RIVER DRIVE AND END AT THE INTERSECTION OF MEALS AVENUE AND PIONEER DRIVE.
- B. TEMPORARY GRAVEL ROAD PARALLEL AND WEST OF MEALS AVENUE IS TO BE CONSTRUCTED PRIOR TO WORK ON MEALS AVENUE TO PROVIDE RESIDENTS ACCESS TO PIONEER DRIVE.
- C. THE ROADS FUNCTION AS COLLECTORS PROVIDING VEHICULAR AND PEDESTRIAN CONNECTIONS TO THE GROCERY STORE, HIGH SCHOOL, CHURCH, AND HOSPITAL. TRAFFIC CONTROL AND CONSTRUCTION PHASING PLANS WILL BE DEVELOPED TO MAINTAIN ACCESS TO THESE IMPORTANT COMMUNITY FACILITIES DURING CONSTRUCTION.

1. PROJECT PHASING MUST BE COORDINATED WITH CITY OF VALDEZ AND PROVIDENCE VALDEZ MEDICAL CENTER TO ESTABLISH ROAD WORK CLOSURES AND ACCESS TO LOCAL FACILITIES.

2. PROVIDENCE VALDEZ MEDICAL CENTER LOCATED EAST OF MEALS AVENUE MUST ALWAYS HAVE ONE ENTRANCE OPEN TO HOSPITAL AND A SINGLE LANE OF MEALS AVENUE ACCESSIBLE AT A MINIMUM AT ALL TIMES DURING CONSTRUCTION.

SHOULD THE CONTRACTOR NEED TO COORDINATE WITH PROVIDENCE VALDEZ MEDICAL CENTER REGARDING CONSTRUCTION PHASING AND SITE ACCESS PLEASE CONTACT: BRENT FERGUSON, FACILITY SERVICE MANAGER, T:907-834-1842 OR C:907-268-8668, BRENT.FERGUSON@PROVIDENCE.ORG.



	<b>BASE BID: MEALS AVENUE</b>	(UNDER SEPARATE COVER)
	<b>ADDITIVE ALTERNATE #1: EAST CHENA STREET REPAVING</b>	(UNDER SEPARATE COVER)
	<b>ADDITIVE ALTERNATE #2: EAST BREMNER STREET REPAVING AND STORM UTILITY REPLACEMENT</b>	(UNDER SEPARATE COVER)
	<b>ALTERNATE #3: HDPE CONDUIT REPLACES RIGID CONDUIT IN BASE PLANS</b>	(UNDER SEPARATE COVER)
	<b>ADDITIVE ALTERNATE #4: ROBE RIVER DRIVE</b>	(UNDER SEPARATE COVER)
	<b>ADDITIVE ALTERNATE #5: FIBER OPTIC CONDUIT MEALS AVENUE</b>	(UNDER SEPARATE COVER)
	<b>ADDITIVE ALTERNATE #6: FIBER OPTIC CONDUIT ROBE RIVER DRIVE</b>	(UNDER SEPARATE COVER)

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VALDEZ PAVEMENT REHABILITATION  
PHASE IV-ROBE RIVER DRIVE - ALTERNATE 4  
SITE PLAN AND KEY MAP  
VALDEZ, ALASKA

PROJECT	63461.01
DATE	01/16/2026

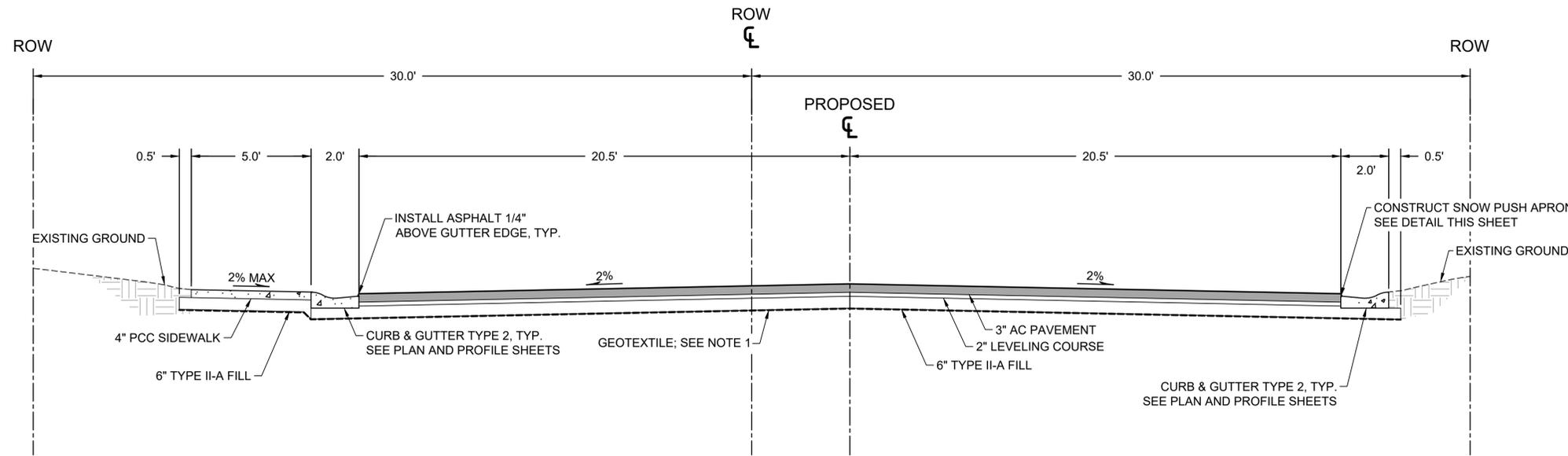
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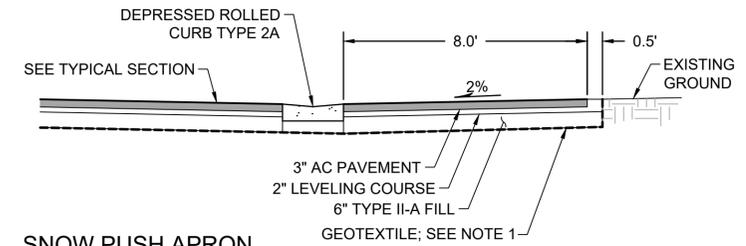


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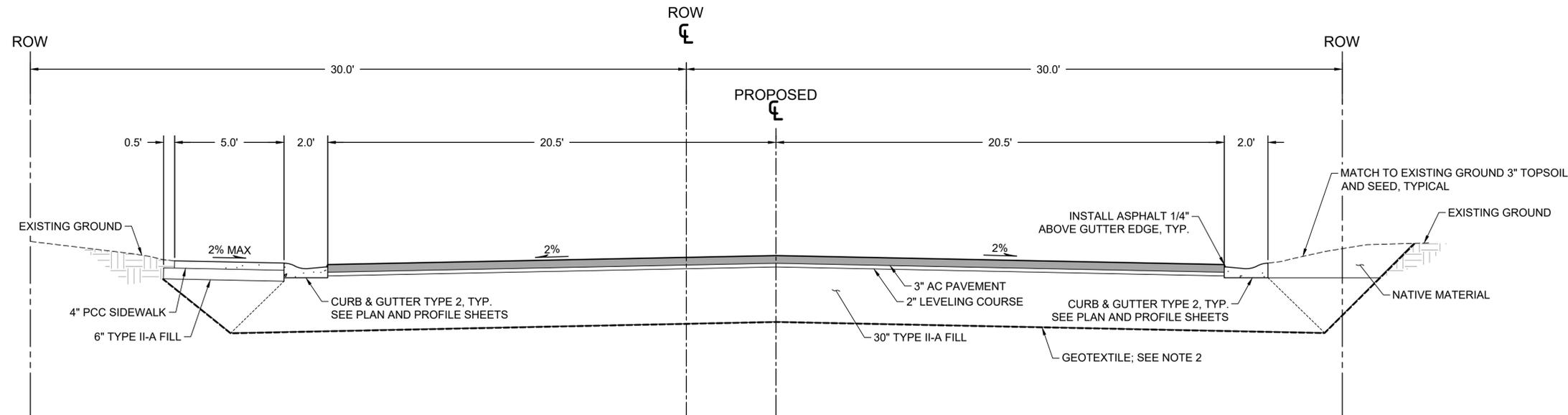


**ROBE RIVER DRIVE - TYPICAL SECTION**

BOP STA: 125+29.00 TO 129+40.00  
STA: 130+60.00 TO 135+92.81



**SNOW PUSH APRON**  
STA: 127+77.19 TO 130+10.02



**ROBE RIVER DRIVE - REDUCED SUBGRADE STRENGTH (RSS) SECTION**

STA: 129+40.00 TO 130+60.00

**NOTES**

1. GEOTEXTILE FOR RE-SURFACING SECTION TO BE A SEPARATION AND STABILIZATION GEOTEXTILE. GEOTEXTILE TO BE WOVEN MEETING CLASS 3 STRENGTH PER AASHTO M288 WHICH ALSO MEETS CRITERIA FOR TYPE A SEPARATION GEOTEXTILE PER CITY OF VALDEZ.
2. GEOTEXTILES USED UNDER REDUCED SUBGRADE SECTION SHALL BE WOVEN AND MEET CRITERIA FOR CITY OF VALDEZ (20.22) TYPE A, SEPARATION GEOTEXTILE.
3. LEVELING COURSE AND TYPE II-A FILL SHALL MEET REQUIREMENTS OF CITY OF VALDEZ GRADATION. SEE GEOTECHNICAL REPORT. CLASSIFIED FILL SHALL BE PLACED AND COMPACTED IN LIFTS NOT EXCEEDING 12 INCHES IN LOOSE THICKNESS IF A LARGE VIBRATORY COMPACTOR IS USED. EACH LIFT SHOULD BE COMPACTED THROUGHOUT ITS ENTIRE DEPTH TO A DENSITY OF AT LEAST 95 PERCENT OF THE MAXIMUM DRY DENSITY AS DETERMINED BY MODIFIED PROCTOR AASHTO T180.
4. EXCAVATIONS SHOULD BE COMPLETELY DEWATERED BEFORE PLACEMENT OF CLASSIFIED FILL. DO NOT PLACE FILL OR ASPHALT PAVEMENT OVER FROZEN SOILS. DO NOT FILL OR BACKFILL WITH FROZEN SOILS.
5. GRASS AREAS WITHIN WORK LIMITS SHALL BE REPLACED WITH 2-IN TOPSOIL AND SEED.

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VALDEZ PAVEMENT REHABILITATION  
PHASE IV-ROBE RIVER DRIVE - ALTERNATE 4  
TYPICAL SECTIONS  
VALDEZ, ALASKA

PROJECT 63461.01  
DATE 01/16/2026

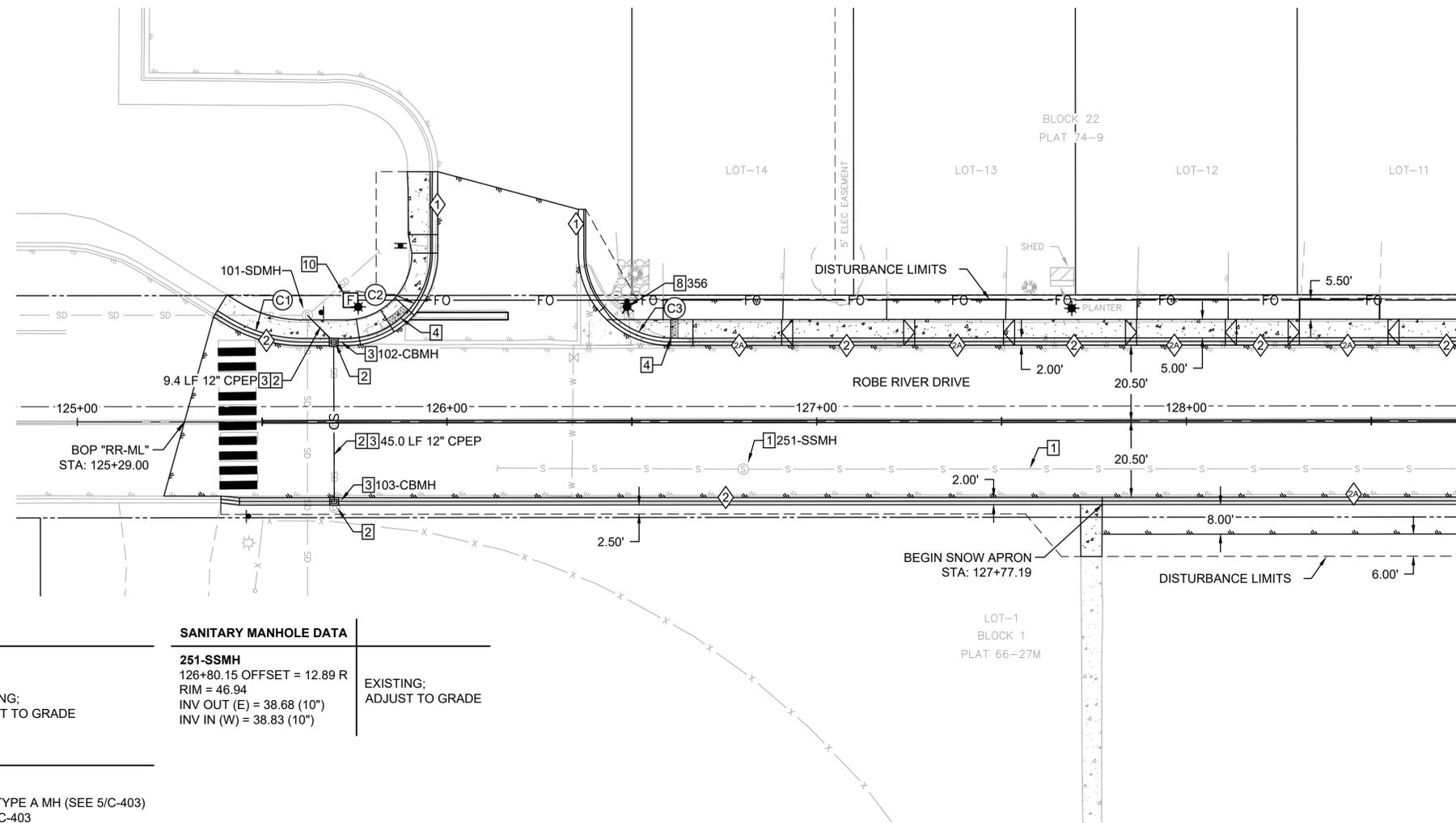
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**C-101**





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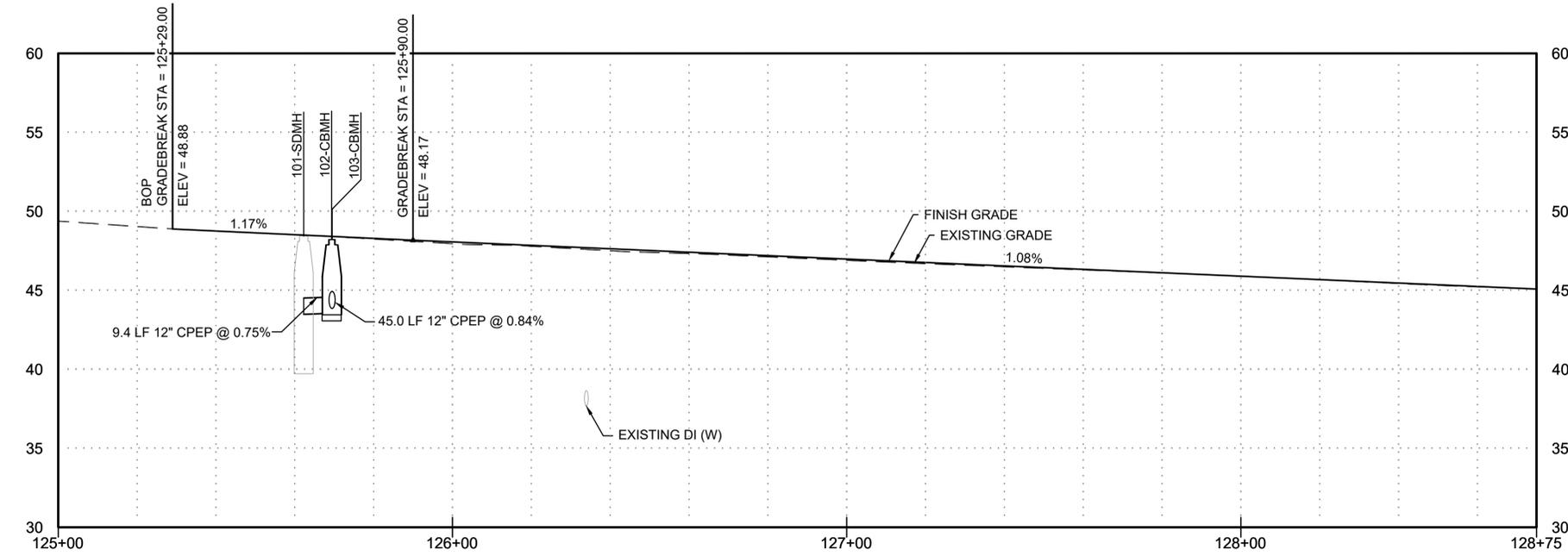
MATCHLINE C-202

**STORM MANHOLE DATA**

<p><b>101-SDMH</b>                  125+62.27 OFFSET = 28.72 L                  RIM = 48.43                  INV IN (SE) = 43.49 (12")                  INV OUT (S) = 42.22 (18")                  INV IN (W) = 42.26 (12")                  INV IN (NE) = 42.79 (12")</p>	<p>EXISTING;                  ADJUST TO GRADE</p>
<p><b>102-CBMH</b>                  125+69.36 OFFSET = 22.50 L                  RIM = 48.21                  INV IN (S) = 43.61 (12")                  INV OUT (NW) = 43.56 (12")</p>	<p>NEW; TYPE A MH (SEE 5/C-403)                  SEE 3/C-403</p>
<p><b>103-CBMH</b>                  125+69.49 OFFSET = 22.50 R                  RIM = 48.21                  INV OUT (N) = 43.95 (12")</p>	<p>NEW; TYPE A MH (SEE 5/C-403)                  SEE 3/C-403</p>

**SANITARY MANHOLE DATA**

<p><b>251-SSMH</b>                  126+80.15 OFFSET = 12.89 R                  RIM = 46.94                  INV OUT (E) = 38.68 (10")                  INV IN (W) = 38.83 (10")</p>	<p>EXISTING;                  ADJUST TO GRADE</p>
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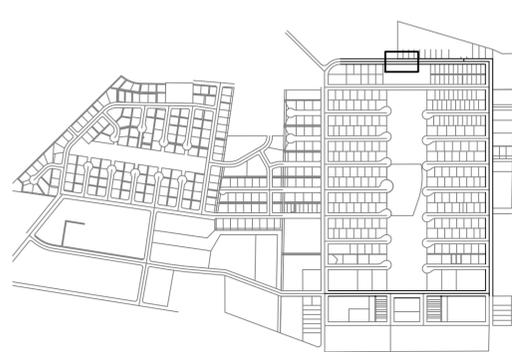
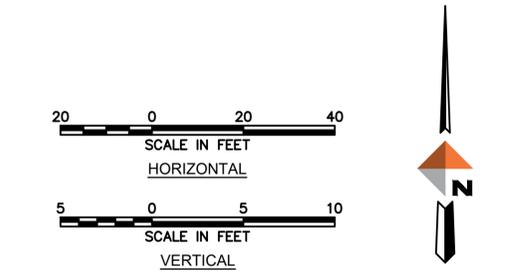
- GENERAL NOTES**
- SEE SHEET C-101 FOR TYPICAL ROAD SECTION.
  - NOTIFY ENGINEER OR OWNER'S REPRESENTATIVE IF TECTITE PIPE IS DISCOVERED IN THE FIELD.
  - SEE ELECTRICAL SHEETS FOR LIGHT POLE INFORMATION.
  - PIPE INSTALLATION TO FOLLOW TRENCH BACKFILL SHOWN IN COV DETAIL 20-11 AND 20-13.
  - CATCH BASIN RIM ELEVATIONS ARE MEASURED FROM TOP BACK OF CURB.
  - WATER AND SANITARY SEWER NOT SHOWN IN PROFILE FOR CLARITY.

- KEY NOTES**
- CLEAN AND REINSPECT UTILITY
  - REMOVE UTILITY STRUCTURE OR PIPE
  - INSTALL NEW UTILITY STRUCTURE
  - CURB RAMP; SEE GRADING SHEETS, DETAILS ON C-401
  - MAINTAIN CURRENT CLEANING/CCTV SCHEDULE
  - REQUIRES MAINTENANCE, SEE STRUCTURES TABLES
  - CLEAN AND REINSPECT UTILITY, VERIFY GRADE OF PIPES AND LOCATION OF ANY DAMAGE.
  - REMOVE AND REPLACE FIRE HYDRANT. CITY OF VALDEZ TO SUPPLY HYDRANT. CONTRACTOR TO INSTALL HYDRANT AND NEW LEG UP TO VALVE PER COV DETAIL 60-6. GUARD POSTS ONLY TO BE INSTALLED WHERE NOTED.
  - SEE KEY NOTE 8. VALVE WAS NOT ABLE TO BE LOCATED. INSTALL NEW VALVE PER COV DETAIL 60-4.
  - FIBER OPTIC VAULT, SEE DETAIL 1/C-405. SEE ELECTRICAL FOR CONDUIT ROUTING.

**CURB TABLE**

\*SEE CURB DETAILS ON C-401

①	STANDING CURB & GUTTER
②	ROLLED CURB & GUTTER
③	DEPRESSED ROLLED CURB
④	SHEDDING CURB & GUTTER
⑤	DEPRESSED CURB & GUTTER
⑥	FULL HEIGHT ROLLED CURB & GUTTER
⑦	FULL HEIGHT ROLLED SHEDDING CURB & GUTTER



**KEY MAP**  
SCALE 1"=1000'

REV	DATE	DESCRIPTION



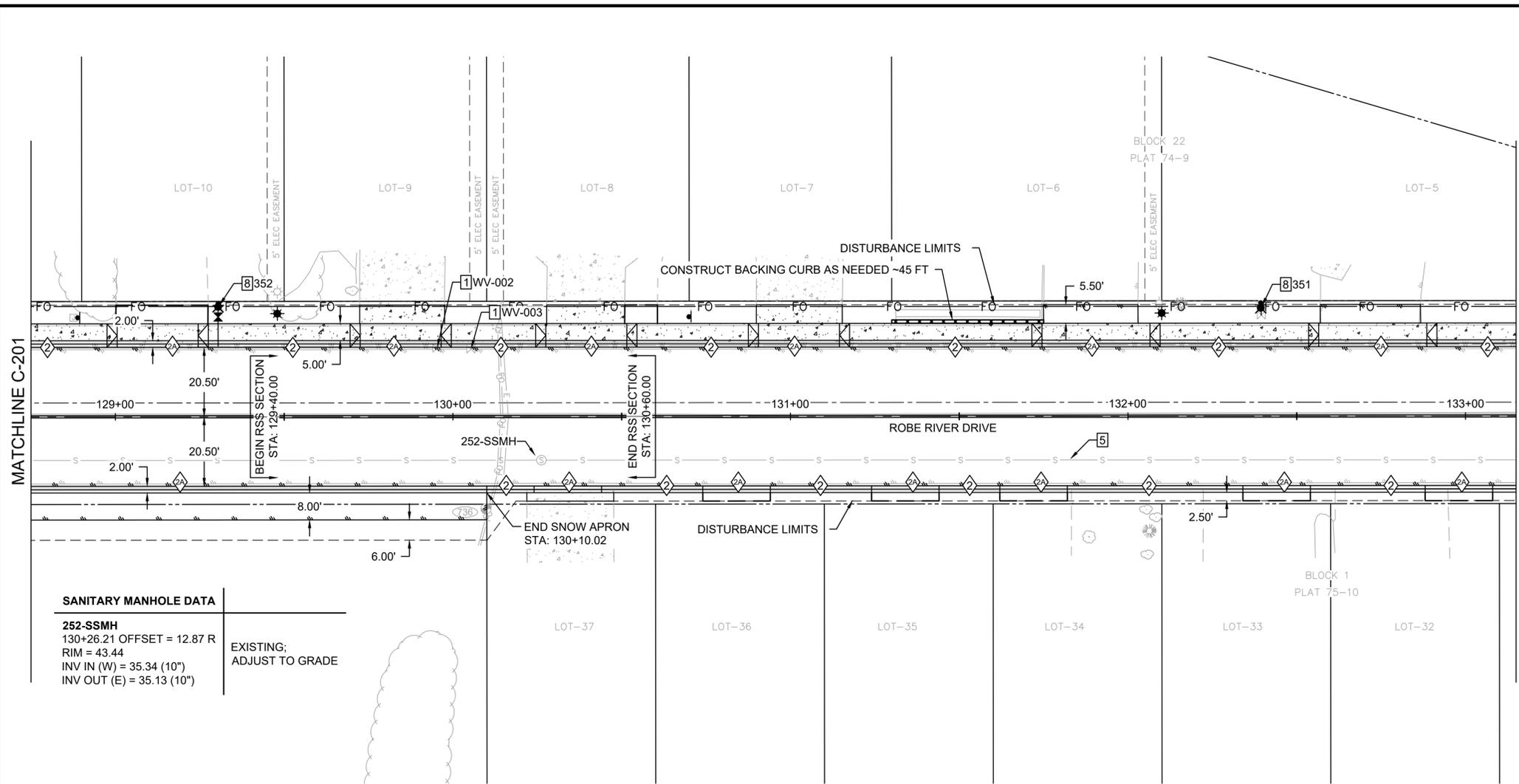
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VALDEZ PAVEMENT REHABILITATION  
 PHASE IV-ROBE RIVER DRIVE - ALTERNATE 4  
 PLAN AND PROFILE

PROJECT 63461.01  
 DATE 01/16/2026

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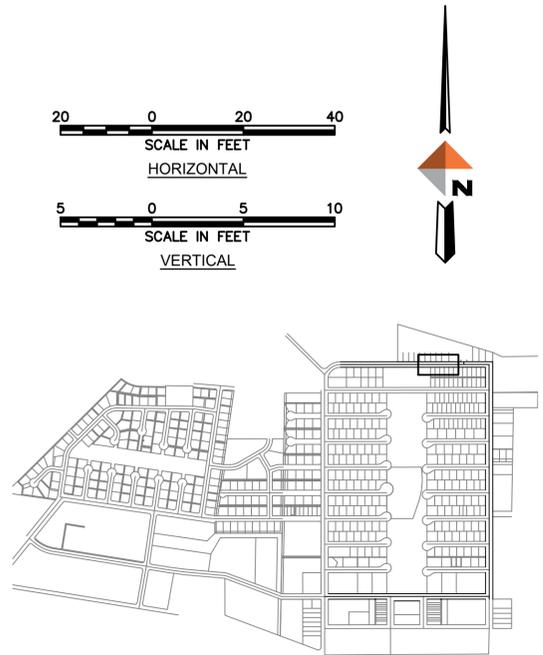
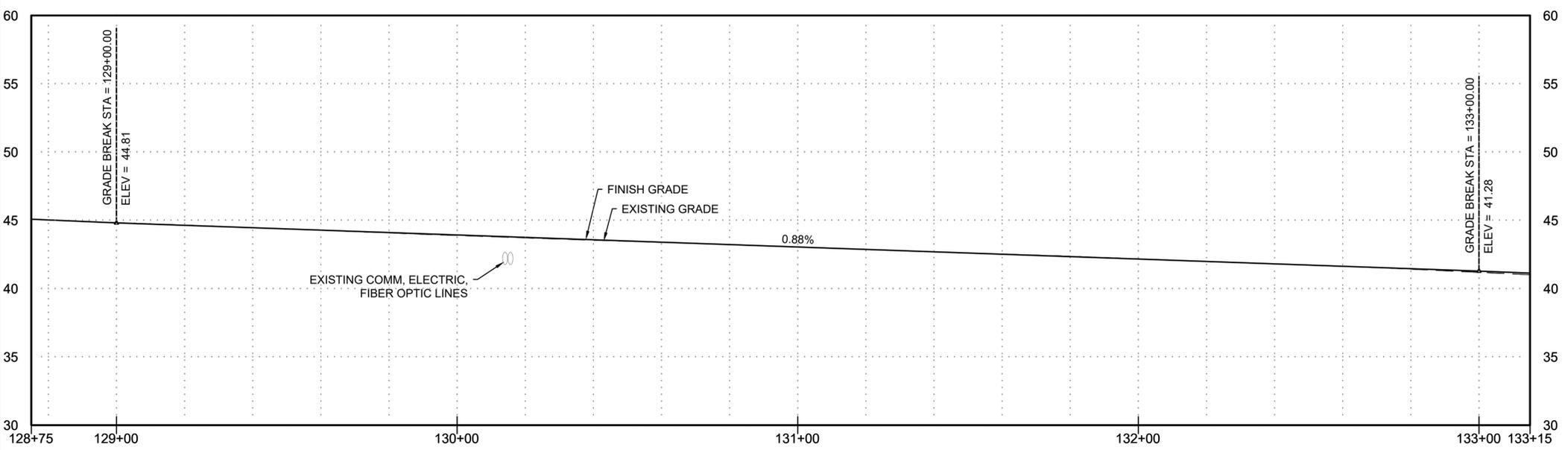


SANITARY MANHOLE DATA	
<b>252-SSMH</b>	EXISTING; ADJUST TO GRADE
130+26.21 OFFSET = 12.87 R	
RIM = 43.44	
INV IN (W) = 35.34 (10") INV OUT (E) = 35.13 (10")	

- ### GENERAL NOTES
- SEE SHEET C-101 FOR TYPICAL ROAD SECTION.
  - NOTIFY ENGINEER OR OWNER'S REPRESENTATIVE IF TECTITE PIPE IS DISCOVERED IN THE FIELD.
  - SEE ELECTRICAL SHEETS FOR LIGHT POLE INFORMATION.
  - PIPE INSTALLATION TO FOLLOW TRENCH BACKFILL SHOWN IN COV DETAIL 20-11 AND 20-13.
  - CATCH BASIN RIM ELEVATIONS ARE MEASURED FROM TOP BACK OF CURB.
  - WATER AND SANITARY SEWER NOT SHOWN IN PROFILE FOR CLARITY.

- ### KEY NOTES
- CLEAN AND REINSPECT UTILITY
  - REMOVE UTILITY STRUCTURE OR PIPE
  - INSTALL NEW UTILITY STRUCTURE
  - CURB RAMP; SEE GRADING SHEETS, DETAILS ON C-401
  - MAINTAIN CURRENT CLEANING/CCTV SCHEDULE
  - REQUIRES MAINTENANCE, SEE STRUCTURES TABLES
  - CLEAN AND REINSPECT UTILITY, VERIFY GRADE OF PIPES AND LOCATION OF ANY DAMAGE.
  - REMOVE AND REPLACE FIRE HYDRANT. CITY OF VALDEZ TO SUPPLY HYDRANT. CONTRACTOR TO INSTALL HYDRANT AND NEW LEG UP TO VALVE PER COV DETAIL 60-6. GUARD POSTS ONLY TO BE INSTALLED WHERE NOTED.
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CURB TABLE	
*SEE CURB DETAILS ON C-401	
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⑥	FULL HEIGHT ROLLED CURB & GUTTER
⑦	FULL HEIGHT ROLLED SHEDDING CURB & GUTTER



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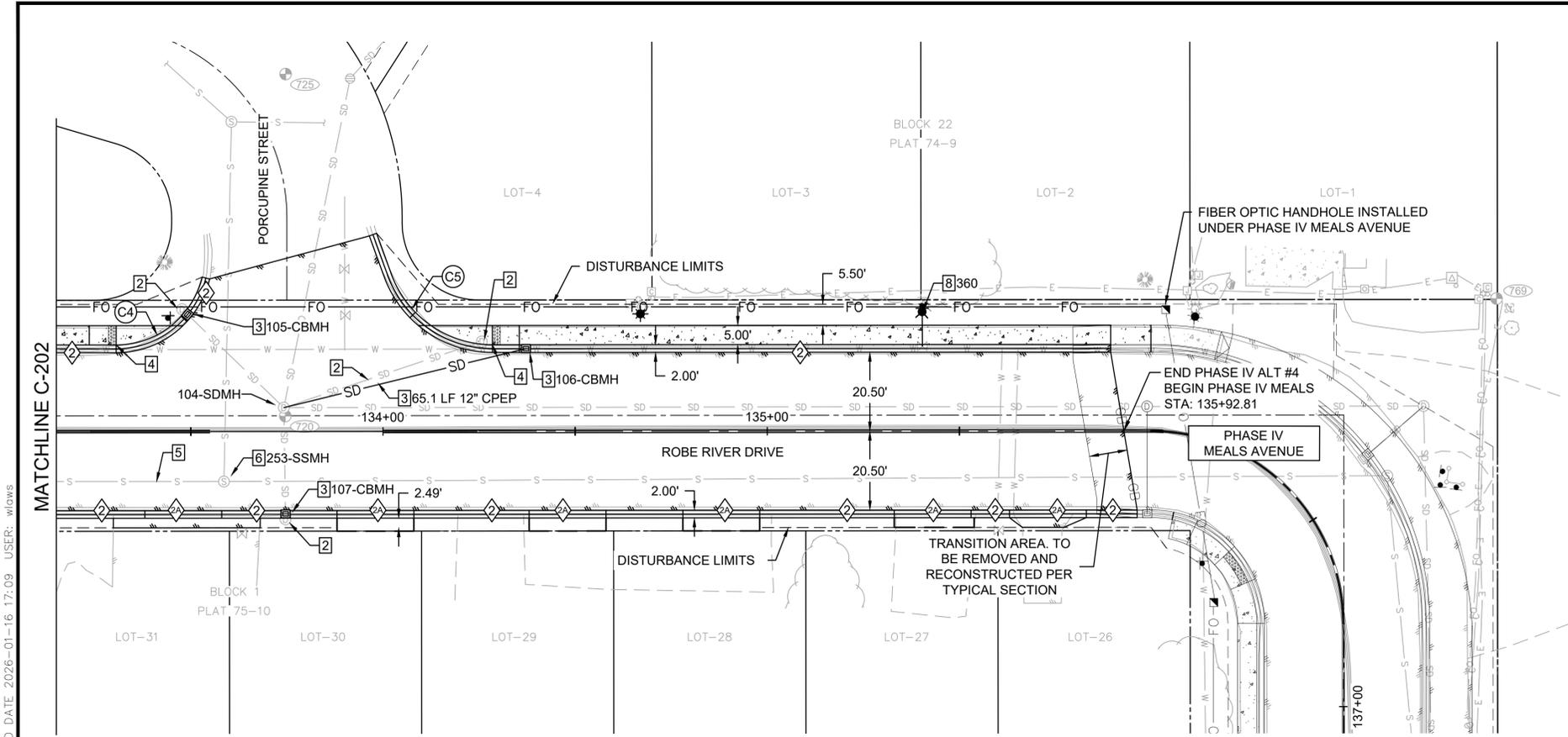
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PROJECT 63461.01  
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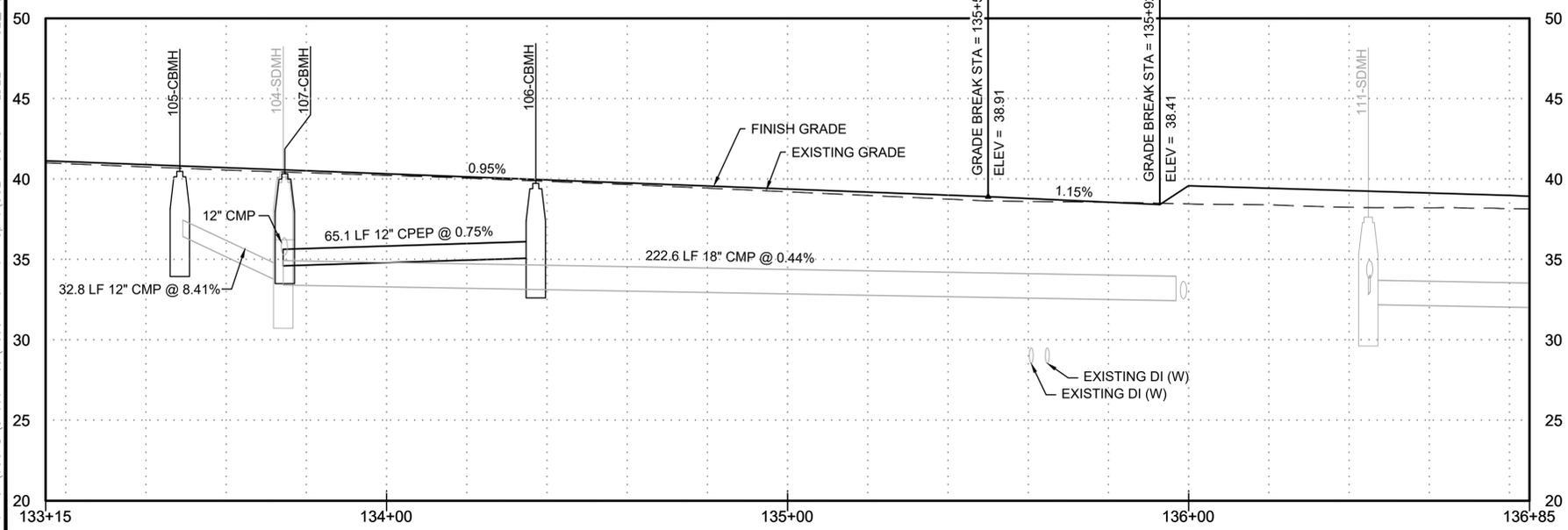
**C-202**



STORM MANHOLE DATA	
<b>104-SDMH</b> 133+74.21 OFFSET = 6.20 L RIM = 40.45 INV OUT (E) = 33.42 (18") INV IN (N) = 33.22 (18") INV IN (NW) = 33.68 (12") INV IN (E) = 34.62 (12") INV IN (S) = 33.79 (12")	EXISTING; ADJUST TO GRADE USE PREVIOUS NE PENETRATION FOR NEW PIPE; FULLY GROUT PENETRATION
<b>105-CBMH</b> 133+48.45 OFFSET = 31.00 L RIM = 40.48 INV OUT (SE) = 36.44 (12")	NEW; TYPE A MH (SEE 5/C-403) SEE 3/C-403 CONNECT TO EXISTING PIPE

STORM MANHOLE DATA	
<b>106-CBMH</b> 134+37.21 OFFSET = 22.50 L RIM = 39.74 INV OUT (W) = 35.11 (12")	NEW; TYPE A MH (SEE 5/C-403) SEE 3/C-403
<b>107-CBMH</b> 133+74.63 OFFSET = 22.50 R RIM = 40.33 INV OUT (N) = 36.00 (12")	NEW; TYPE A MH (SEE 5/C-403) SEE 3/C-403 CONNECT TO EXISTING PIPE

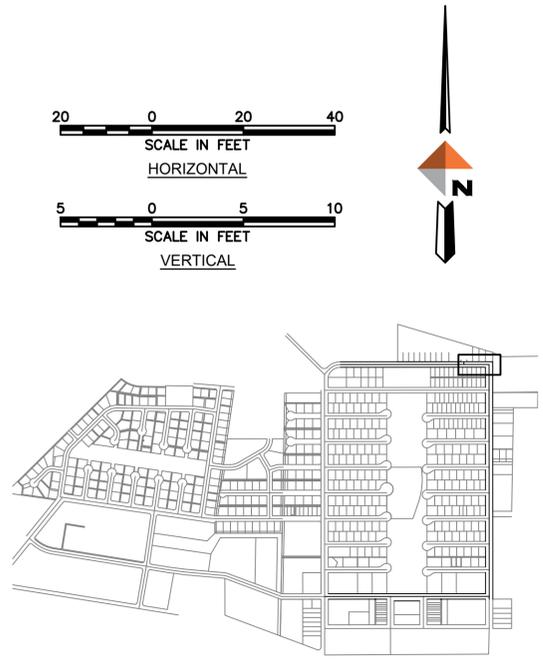
SANITARY MANHOLE DATA	
<b>253-SSMH</b> 133+58.61 OFFSET = 12.99 R RIM = 40.46 INV IN (W) = 31.84 (10") INV OUT (E) = 31.78 (10") INV IN (N) = 31.85 (10")	EXISTING; REPLACE CORRODED LADDER RUNGS; ADJUST TO GRADE



- ### GENERAL NOTES
- SEE SHEET C-101 FOR TYPICAL ROAD SECTION.
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  - CATCH BASIN RIM ELEVATIONS ARE MEASURED FROM TOP BACK OF CURB.
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- ### KEY NOTES
- CLEAN AND REINSPECT UTILITY
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  - INSTALL NEW UTILITY STRUCTURE
  - CURB RAMP; SEE GRADING SHEETS, DETAILS ON C-401
  - MAINTAIN CURRENT CLEANING/CCTV SCHEDULE
  - REQUIRES MAINTENANCE, SEE STRUCTURES TABLES
  - CLEAN AND REINSPECT UTILITY, VERIFY GRADE OF PIPES AND LOCATION OF ANY DAMAGE.
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CURB TABLE	
*SEE CURB DETAILS ON C-401	
①	STANDING CURB & GUTTER
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③	DEPRESSED ROLLED CURB
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⑤	DEPRESSED CURB & GUTTER
⑥	FULL HEIGHT ROLLED CURB & GUTTER
⑦	FULL HEIGHT ROLLED SHEDDING CURB & GUTTER



REV	DATE	DESCRIPTION



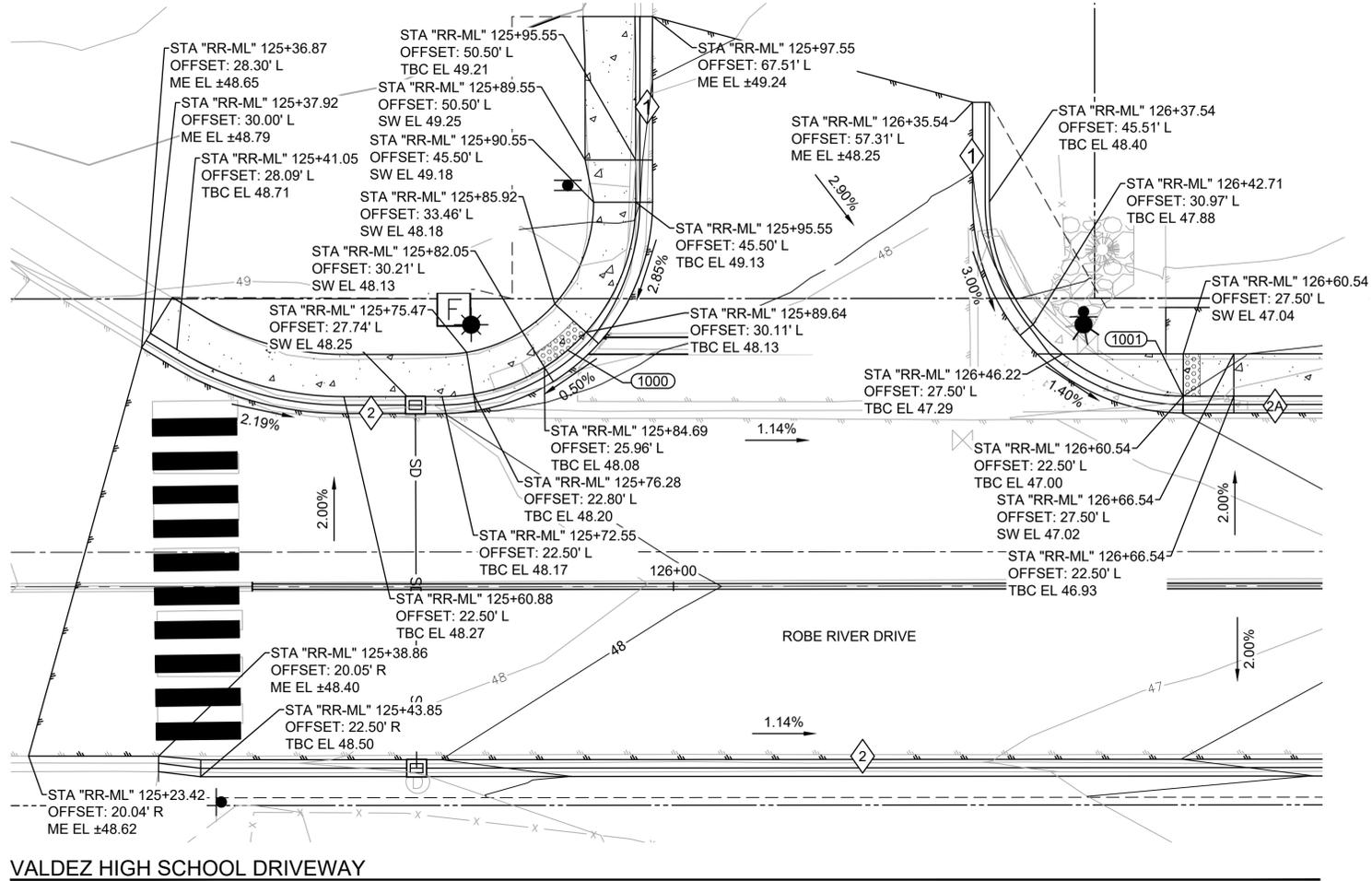
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PHASE IV-ROBE RIVER DRIVE - ALTERNATE 4  
PLAN AND PROFILE  
VALDEZ, ALASKA

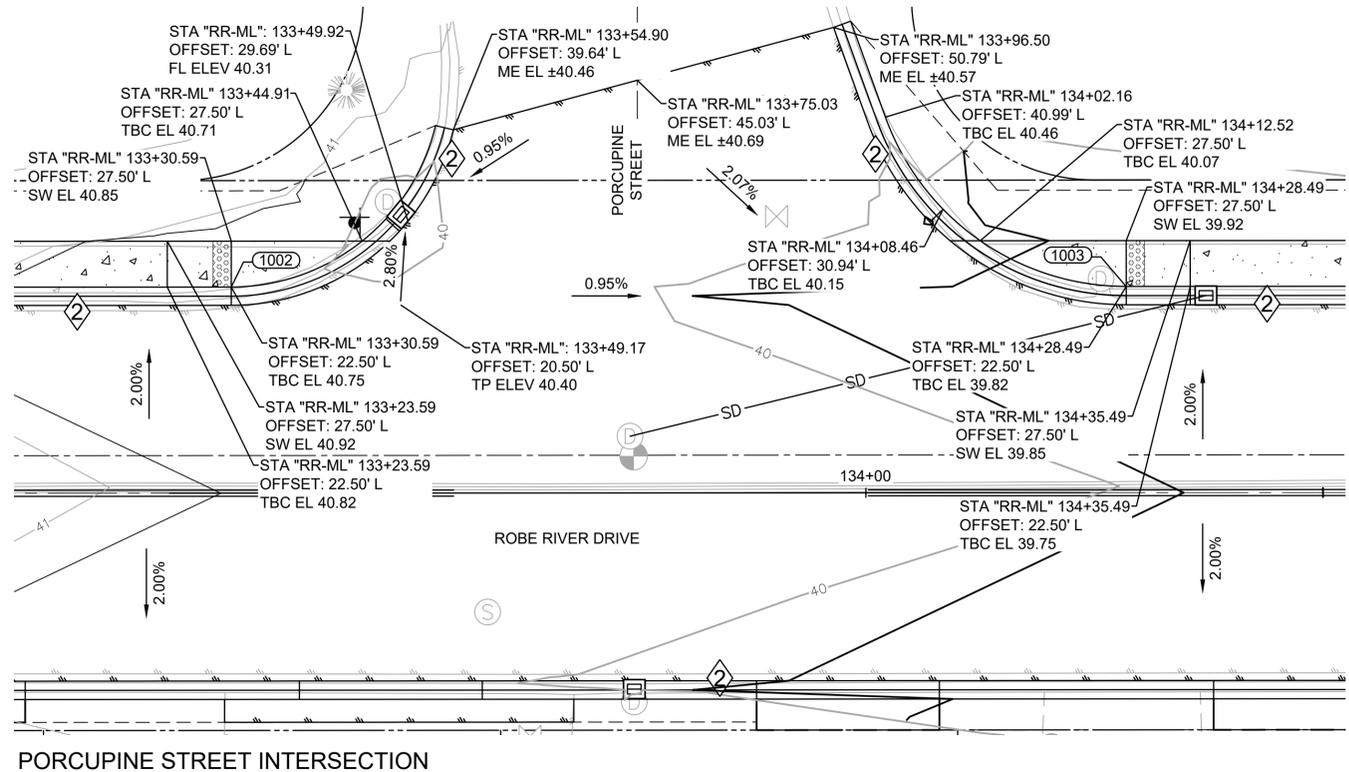
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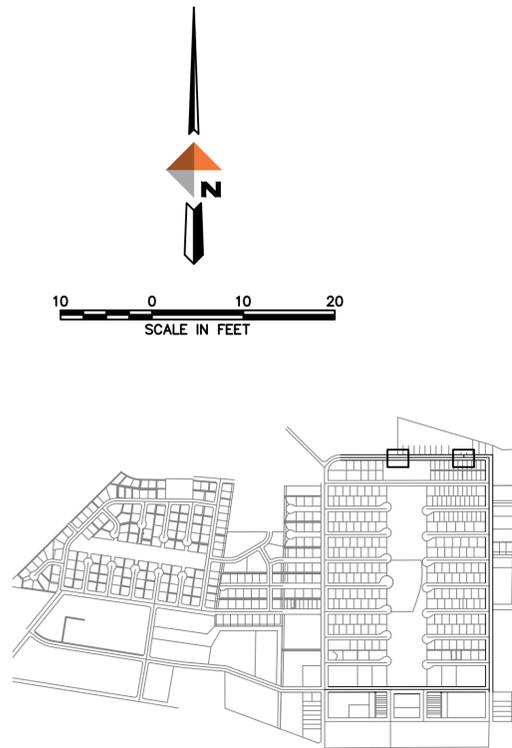
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VALDEZ HIGH SCHOOL DRIVEWAY



PORCUPINE STREET INTERSECTION



KEY MAP  
SCALE 1"=1000'

REV	DATE	DESCRIPTION



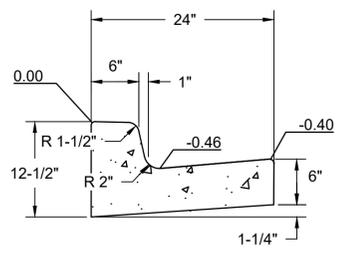
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PHASE IV-ROBE RIVER DRIVE - ALTERNATE 4  
INTERSECTION GRADING

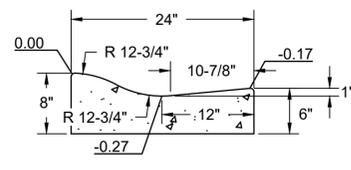
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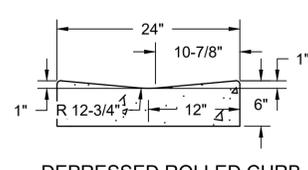
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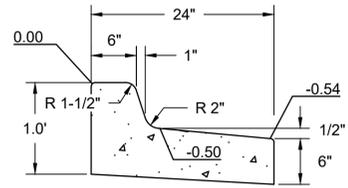
STANDING CURB AND GUTTER  
TYPE 1



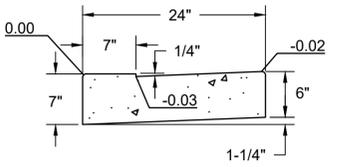
ROLLED CURB AND GUTTER  
TYPE 2



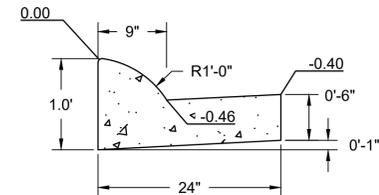
DEPRESSED ROLLED CURB  
TYPE 2A



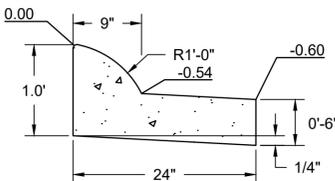
SHEDDING CURB AND GUTTER  
TYPE 3



DEPRESSED CURB AND GUTTER  
(USED AT CURB CUTS)  
TYPE 4

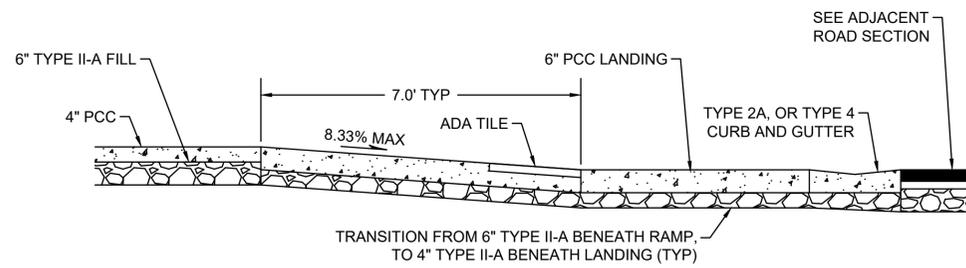


FULL HEIGHT ROLLED CURB AND GUTTER  
TYPE 5

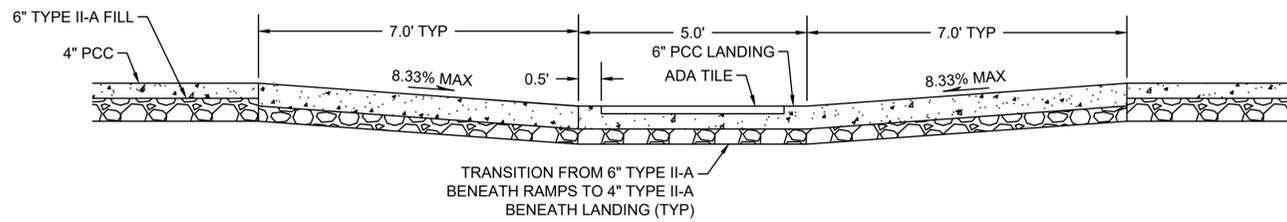


FULL HEIGHT ROLLED SHEDDING CURB AND GUTTER  
TYPE 6

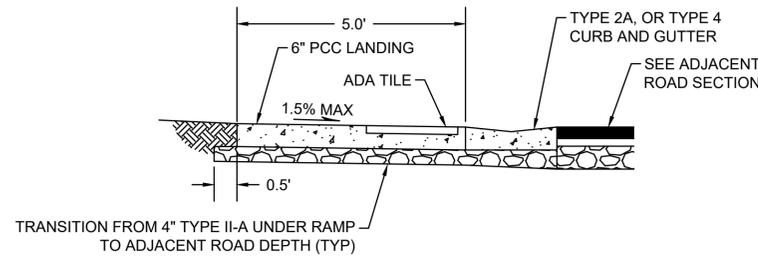
1 C-401 CURB AND GUTTER CROSS SECTIONS (SEE COV 30-1)  
NTS



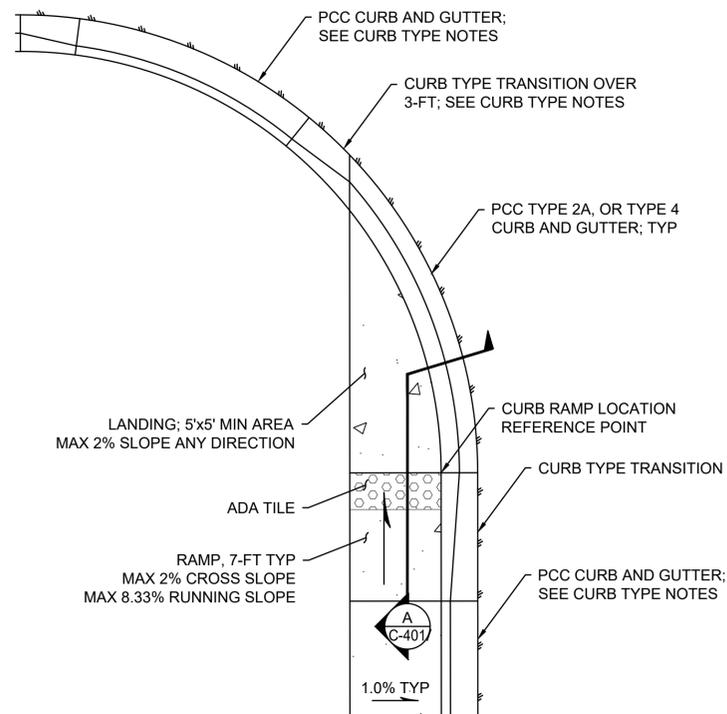
A C-401 PERPENDICULAR CURB RAMP-SECTION, TYP  
NTS



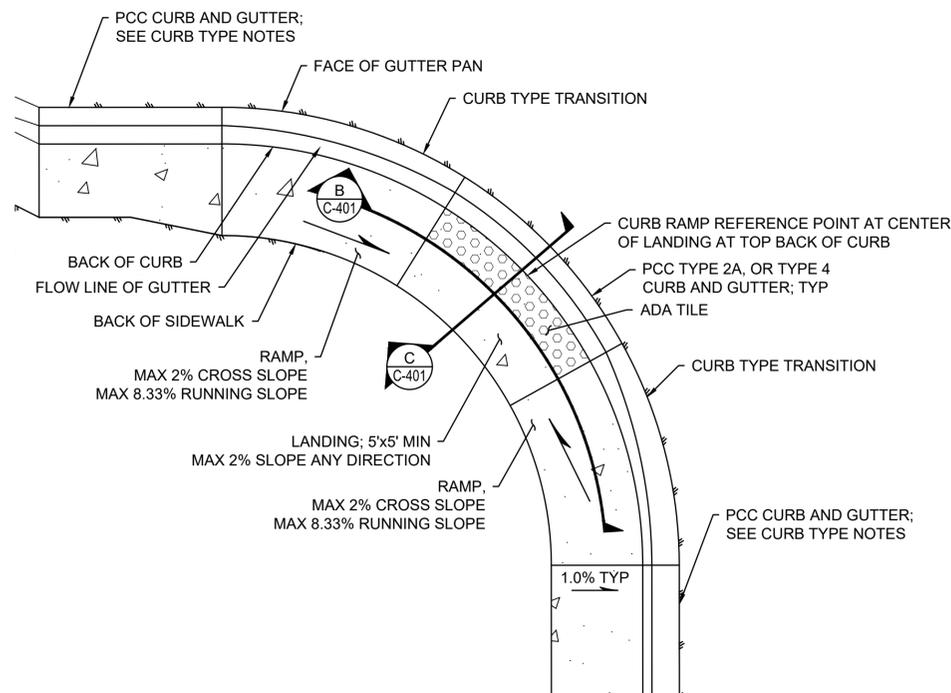
B C-401 PARALLEL CURB RAMP, TYP  
NTS



C C-401 PARALLEL CURB RAMP, TYP  
NTS



2 C-401 TYPE II PARALLEL CURB RAMP - PLAN, TYP  
NTS



3 C-401 TYPE I PARALLEL CURB RAMP, TYP  
NTS

CURB TYPE NOTES:

- USE TYPE 4 CURB AND GUTTER THROUGH LANDING WHEN TYPE 1 OR TYPE 5 CURB AND GUTTER ARE USED ON THE UPHILL SIDE OF RAMP.
- USE TYPE 2A CURB AND GUTTER THROUGH LANDING WHEN TYPE 2 CURB AND GUTTER IS USED ON THE UPHILL SIDE OF RAMP.

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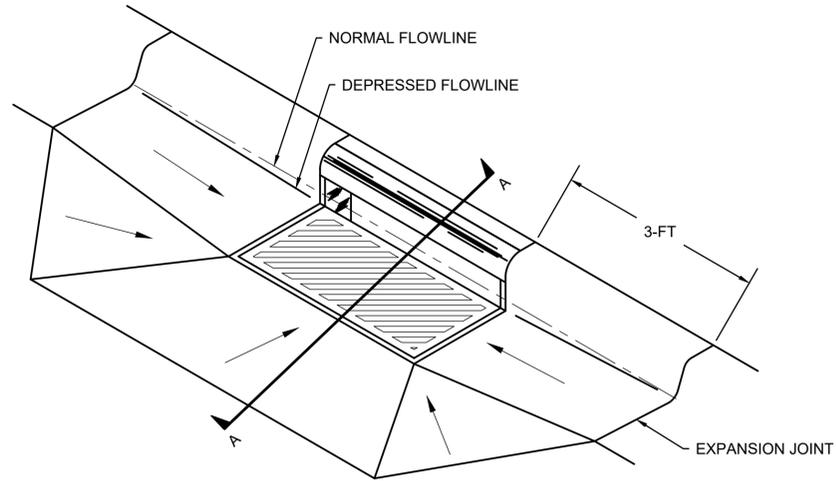
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PHASE IV-ROBE RIVER DRIVE - ALTERNATE 4  
DETAILS  
VALDEZ, ALASKA

PROJECT	63461.01
DATE	01/16/2026

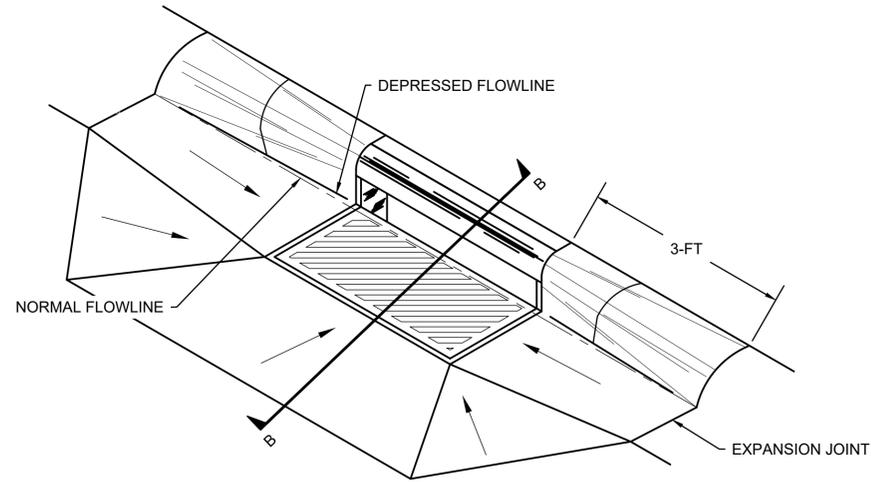
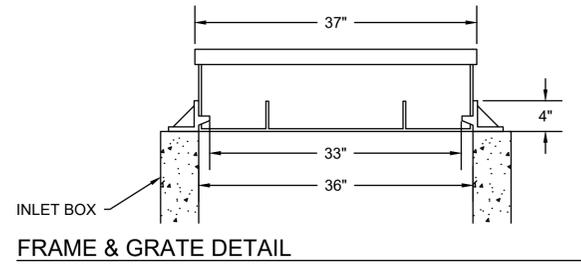
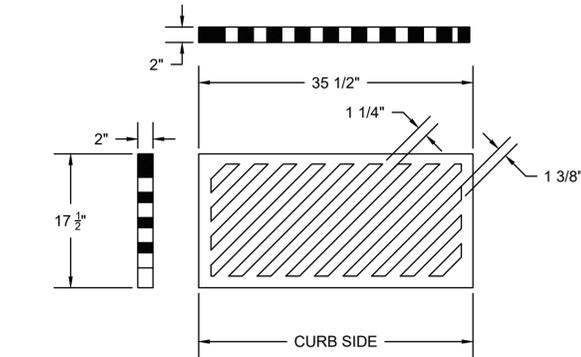
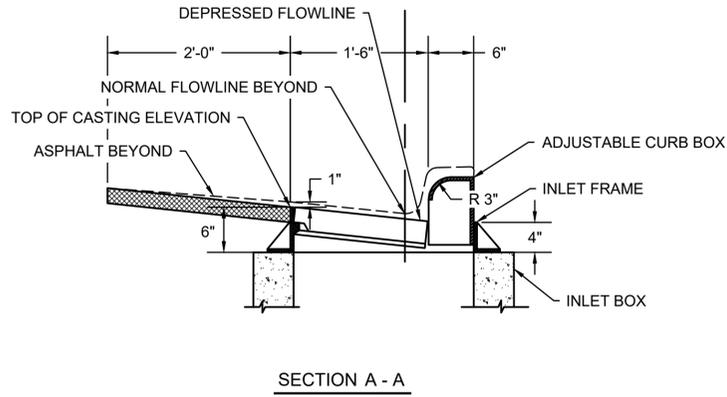
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**C-401**

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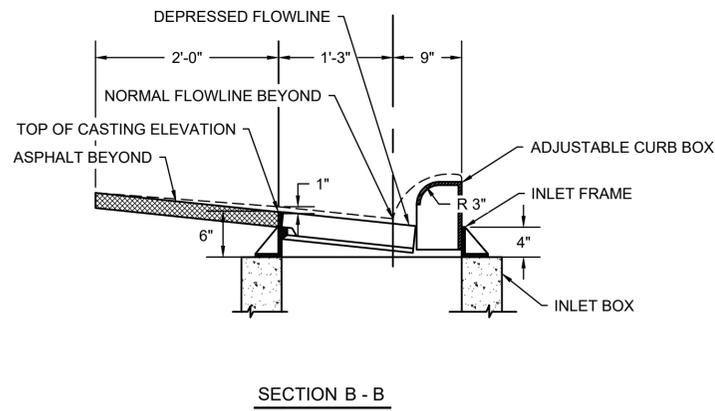
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1 TYPE 1 C&G FRAME AND GRATE  
C-402 NTS



2 TYPE 5 C&G FRAME AND GRATE  
C-402 NTS



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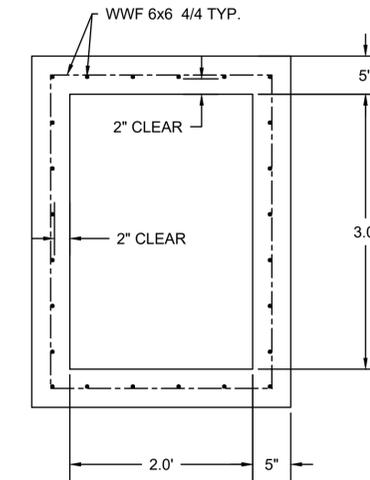
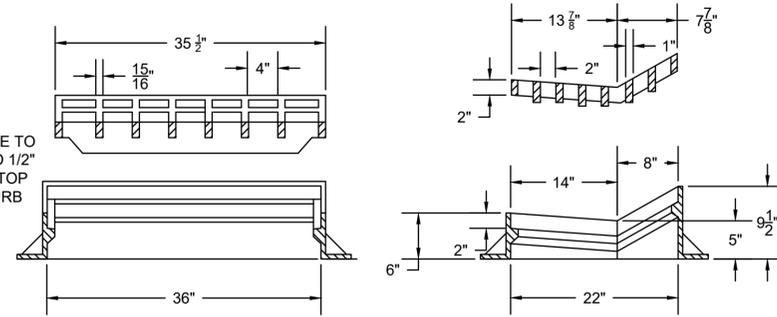
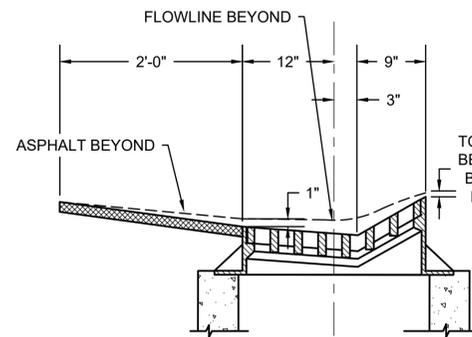
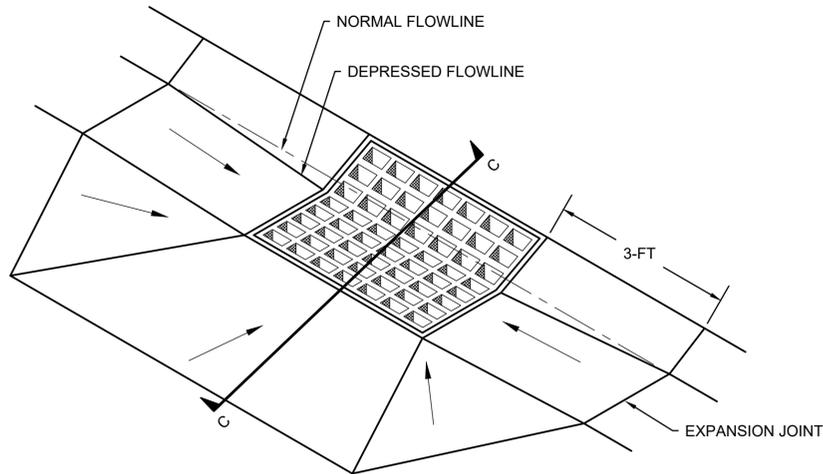


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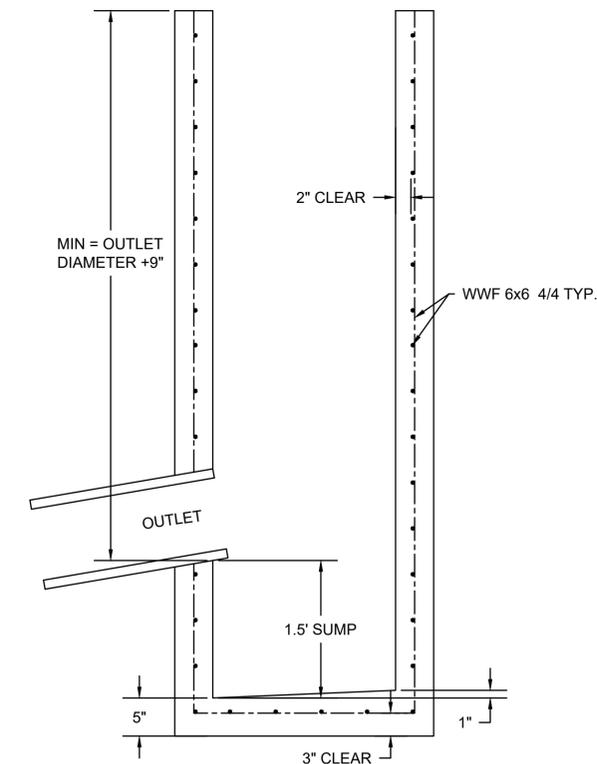
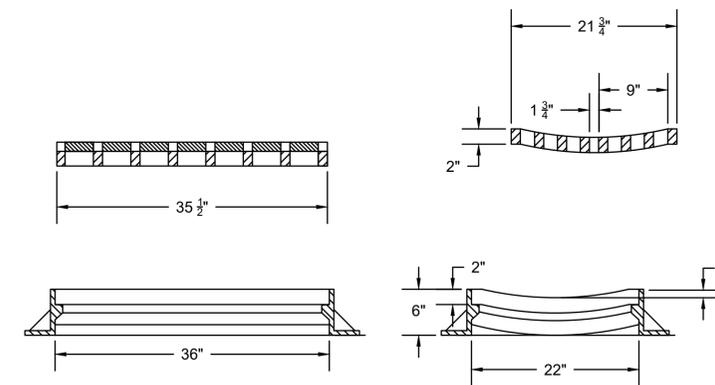
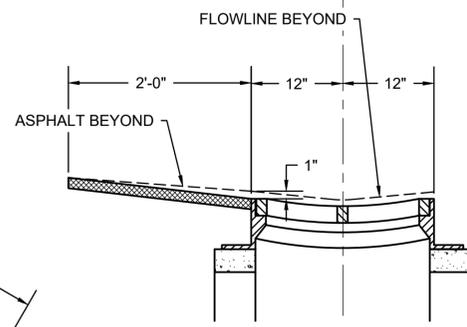
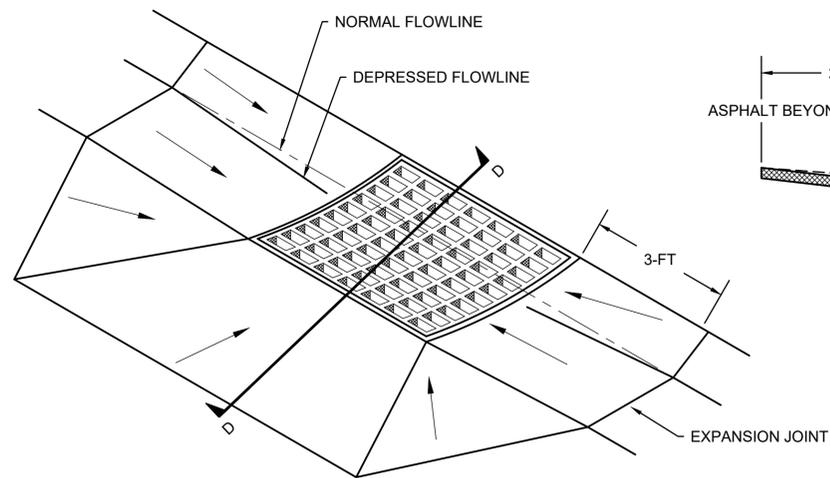
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DETAILS  
VALDEZ, ALASKA

PROJECT	63461.01
DATE	01/16/2026

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**C-402**



3 TYPE 2 CURB & GUTTER INLET  
C-403 NTS



4 TYPE 2A/4 CURB & GUTTER  
C-403 NTS

5 TYPE "A" INLET BOX  
C-403 NTS

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PHASE IV-ROBE RIVER DRIVE - ALTERNATE 4  
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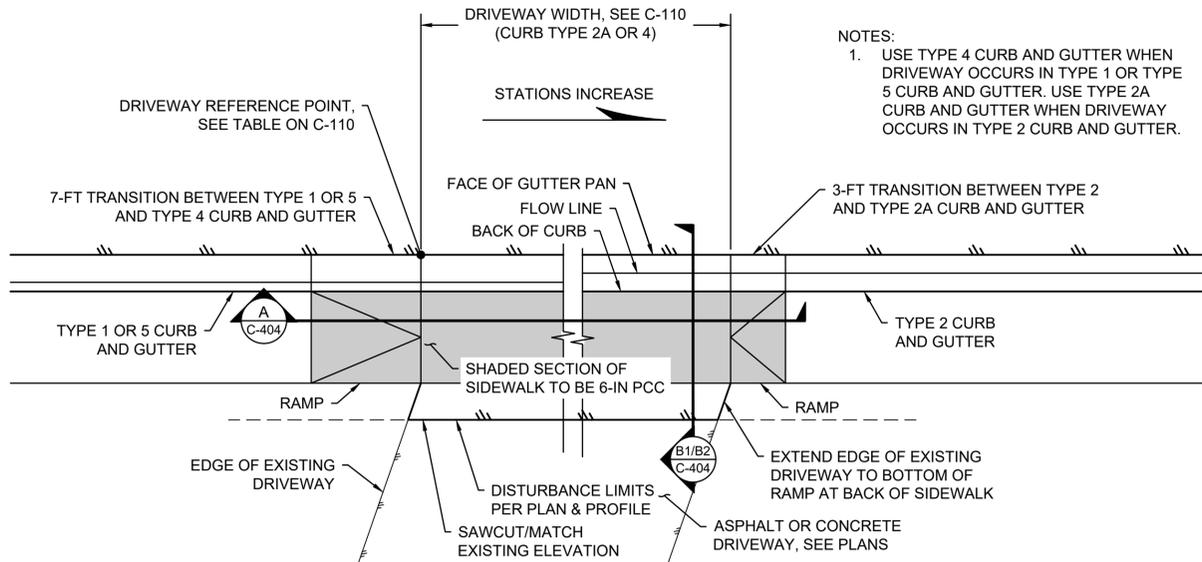
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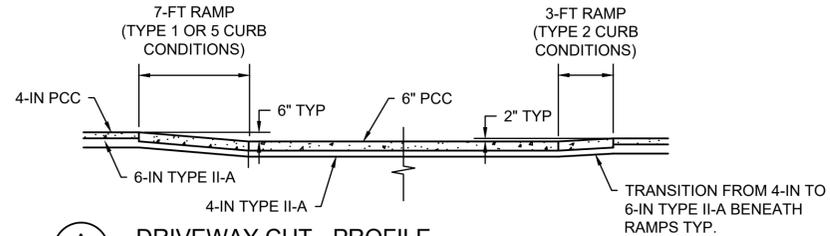
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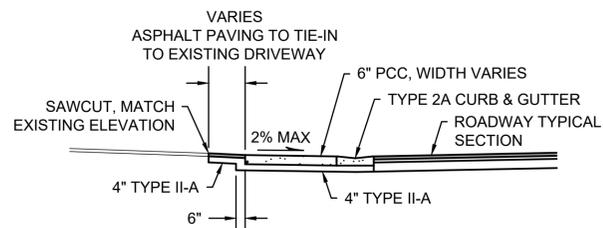
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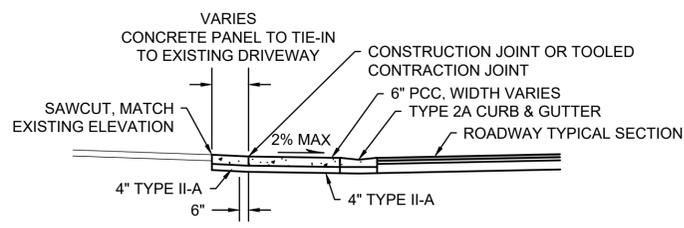
1 DRIVEWAY WITH SIDEWALK - PLAN  
C-404 NTS



A DRIVEWAY CUT - PROFILE  
C-404 NTS

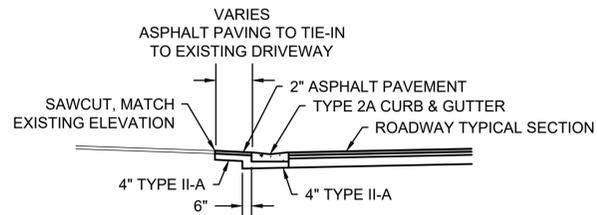


B1 ASPHALT DRIVEWAY W/SIDEWALK  
C-404 NTS

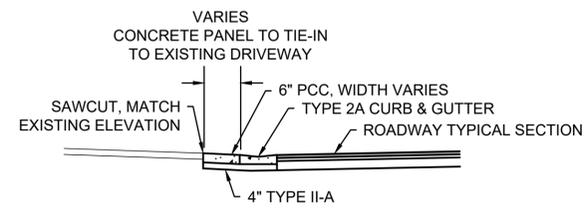


B2 CONCRETE DRIVEWAY W/SIDEWALK  
C-404 NTS

\* DETAILS TITLED WITH 1 OR 2 REPRESENT DIFFERENT SURFACE CONDITIONS. ONLY ONE DETAIL WILL BE USED AT EACH DRIVEWAY DEPENDING ON IT BEING ASPHALT OR CONCRETE.



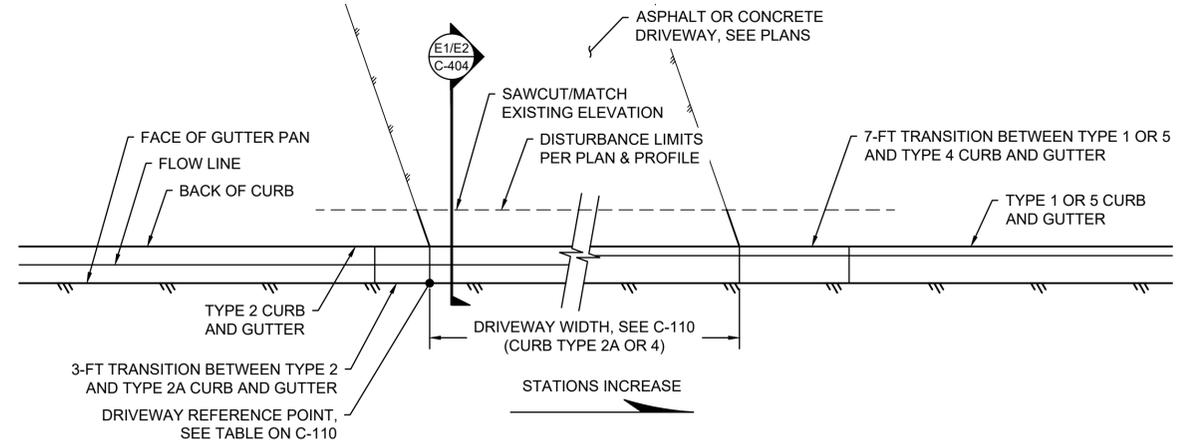
E1 ASPHALT DRIVEWAY W/OUT SIDEWALK  
C-404 NTS



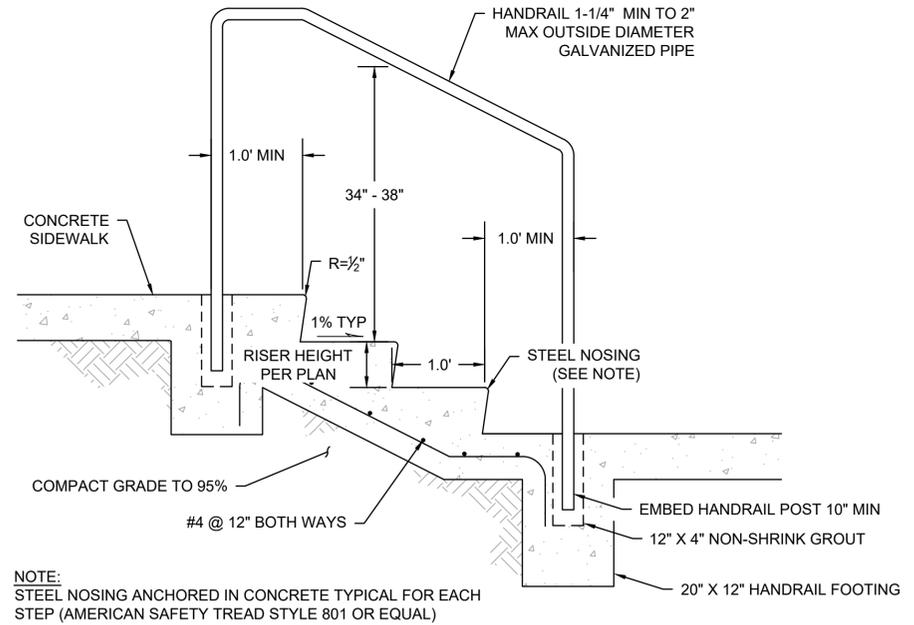
E2 CONCRETE DRIVEWAY W/OUT SIDEWALK  
C-404 NTS

DRIVEWAY NOTES:

- SEE SUMMARY TABLE FOR DRIVEWAY LOCATIONS, WIDTHS, AND MATERIAL TYPES. REMOVE AND REPLACE EXISTING MATERIAL AS REQUIRED TO INSTALL NEW CURB AND GUTTER AND GRADE TO DRAIN.
- RAMP GRADES WILL VARY BASED ON CURB GRADES. NOTIFY ENGINEER OF RECORD IF RESULTING RAMP GRADES ARE LESS THAN 0.5% OR GREATER THAN 8.3%.
- TOOLED CONTRACTION JOINTS AT THE TOP AND BOTTOM OF EACH RAMP SHALL BE PERPENDICULAR TO THE BACK OF CURB.
- THE GRADE OF ALL SIDEWALK CROSS-SLOPES, INCLUDING RAMPS AND LANDINGS, SHALL BE 1.5% TYPICAL AND 2% MAXIMUM.



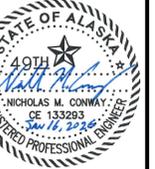
2 DRIVEWAY WITHOUT SIDEWALK - PLAN  
C-404 NTS



NOTE: STEEL NOSING ANCHORED IN CONCRETE TYPICAL FOR EACH STEP (AMERICAN SAFETY TREAD STYLE 801 OR EQUAL)

3 TYPICAL HANDRAIL  
C-404 NTS

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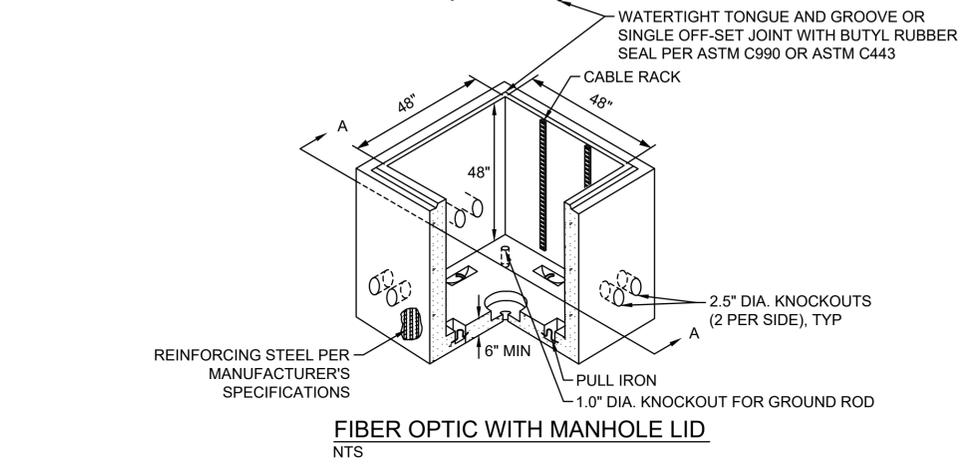
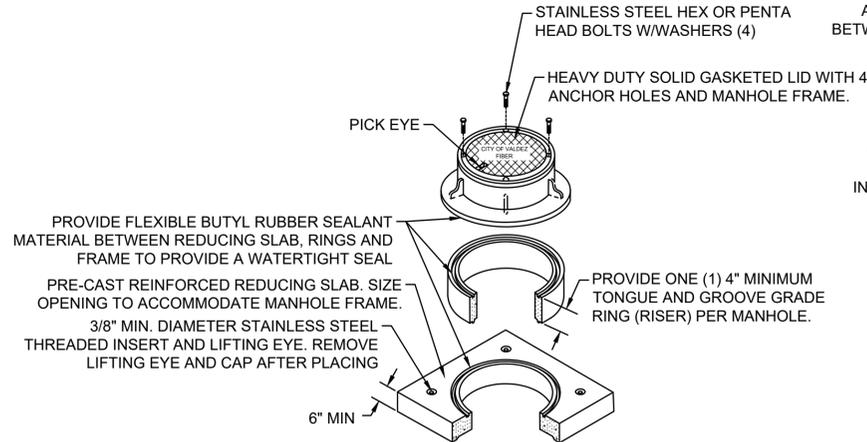
VALDEZ PAVEMENT REHABILITATION  
PHASE IV-ROBE RIVER DRIVE - ALTERNATE 4

DETAILS

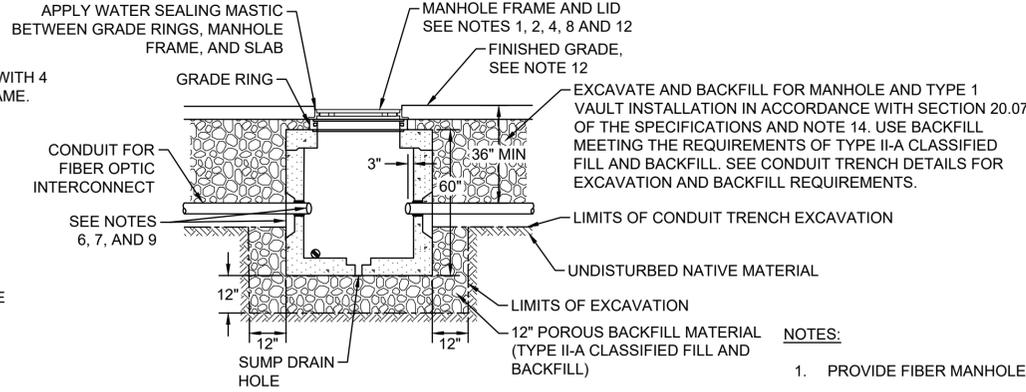
PROJECT 63461.01  
DATE 01/16/2026

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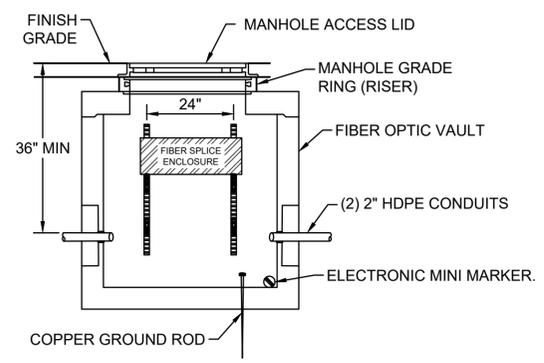
C-404



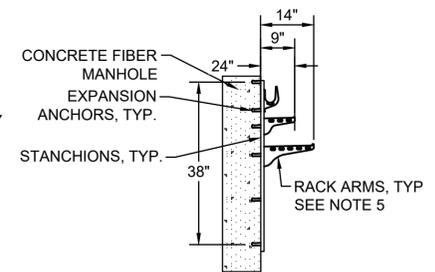
**FIBER OPTIC WITH MANHOLE LID**  
NTS



**SECTION A - A**



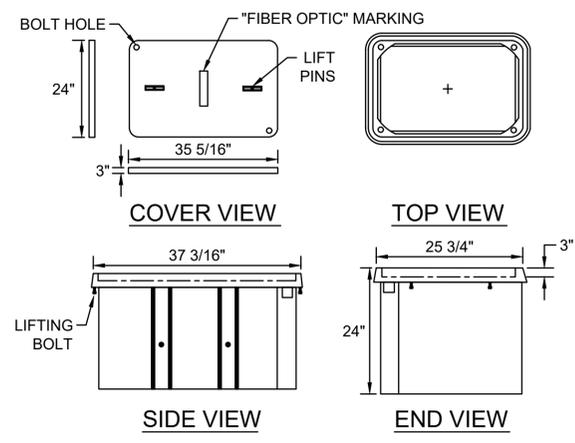
**FIBER OPTIC VAULT LAYOUT, TYPE 1**  
NTS



**TYPICAL CABLE RACK**  
NTS

- NOTES:**
1. PROVIDE FIBER MANHOLE LIDS RATED FOR AASHTO HS-20-44 LOADING.
  2. SUPPLY ALL LIDS WITH A HOLE OR SLOT FOR REMOVAL WITH A LEVER OR HOOK.
  3. WHERE REQUIRED BY OSHA, PROVIDE A PORTABLE ENTRY LADDER MEETING OSHA REQUIREMENTS.
  4. PROVIDE FIBER MANHOLE LIDS MARKED "CITY OF VALDEZ FIBER".
  5. PROVIDE FIBER VAULTS WITH A HEAVY-DUTY NON-METALLIC CABLE STORAGE RACK SYSTEM. PROVIDE RACK ARMS OR STANCHIONS CAPABLE OF SUPPORTING A MINIMUM OF 250 LBS. INCLUDE A MINIMUM OF 36 INCH RACK STANCHIONS AND 4 RACK ARMS.
  6. INSTALL CONDUITS INTO FIBER VAULTS AT THINWALL SECTIONS ONLY. CORE DRILL IN THE THINWALL SECTION TO CONDUIT SIZE PLUS 1/2 INCH ALL AROUND. DO NOT "KNOCK OUT" THE THINWALL SECTION.
  7. SEAL CONDUIT PENETRATIONS USING SIKA LEAKMASTER LV-1 OR APPROVED PRODUCT EQUIVALENT.
  8. BOND AND GROUND ALL METALLIC COMPONENTS OF THE FIBER VAULT, INCLUDING RACK, FRAME AND LIDS.
  9. PLUG CONDUITS ENDS TO EXCLUDE WATER UNTIL FIBER OPTIC CABLE IS INSTALLED.
  10. EXTEND GROUND ROD A MINIMUM OF 4 INCHES AND A MAXIMUM OF 6 INCHES ABOVE BOTTOM OF VAULTS AND MANHOLES.
  11. USE A SPLIT BOLT CONNECTOR TO ATTACH GROUND WIRES TO GROUND ROD. ATTACH NOT MORE THAN TWO WIRES PER BOLT.
  12. U.O.N., TOP OF FIBER VAULTS SHALL BE INSTALLED:
    - A. FROM 0" TO 3/16" BELOW FINISHED GRADE WHEN LOCATED IN A SIDEWALK OR PATHWAY;
    - B. 3/8" BELOW FINISHED GRADE WHEN LOCATED IN A PAVED PARKING LOT, MEDIAN, OR ROADWAY;
    - C. OR AS DIRECTED BY THE ENGINEER.
  13. DO NOT PLACE FIBER VAULTS IN THE BOTTOM OF DRAINAGE COLLECTION AREAS.
  14. ALL TRENCHING AND EXCAVATION SHALL COMPLY WITH COV STANDARD SPECIFICATIONS, AND OSHA SAFETY STANDARDS AND

**1**  
**C-405** TYPE I 4'X4' FIBER OPTIC VAULT  
NTS



**2**  
**C-405** FIBER OPTIC HANDHOLE VAULT  
NTS

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VALDEZ PAVEMENT REHABILITATION  
PHASE IV-ROBE RIVER DRIVE - ALTERNATE 4  
**DETAILS**  
VALDEZ, ALASKA

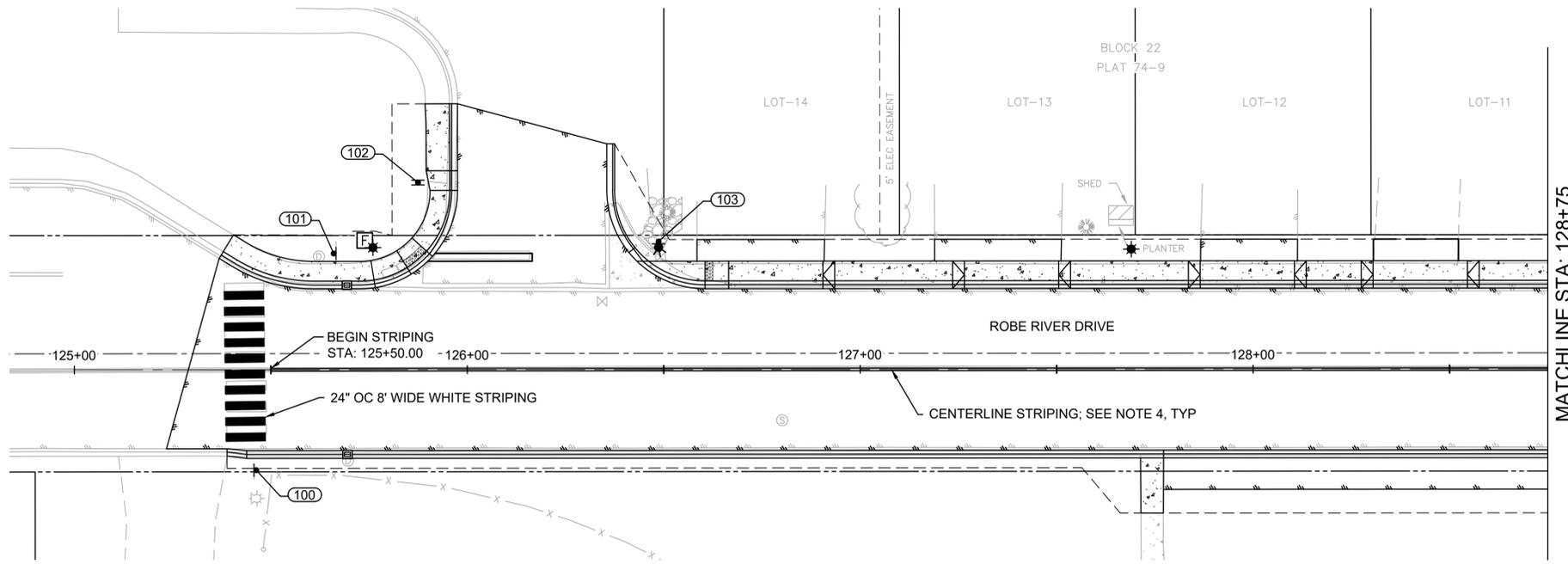
PROJECT	63461.01
DATE	01/16/2026

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**C-405**

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MATCHLINE STA: 128+75

SIGN TABLE									
POST NO.	ALIGNMENT	STATION	OFFSET	TYPE	SIZE (IN)	AREA (SF)	FACES	POST	DESCRIPTION
100	RR-ML	125+46.30	25.50 R	S1-1	36"x36"	9	W	2.5"x2.5" PST	SCHOOL CROSSING
				W16-7P	30"x18"	3.75	W		DIRECTION ARROW
101	RR-ML	125+66.02	29.50 L	S1-1	36"x36"	9	E	2.5"x2.5" PST	SCHOOL CROSSING
				W16-7P	30"x18"	3.75	E		DIRECTION ARROW
102	RR-ML	125+87.49	47.50 L	R1-1	30"x30"	6.25	N	2.5"x2.5" PST	"STOP"
				CUSTOM	18"x18"	2.25	S		"EVACUATION SHELTER"
				R7P-X	12"x18"	1.5	S		"NO CAMPING VIOLATORS WILL BE TOWED"
					12"x18"	1.5	S		"NO CAMPING OR OVERNIGHT PARKING"
103	RR-ML	126+48.58	32.50 L	CUSTOM	12"x18"	1.5	S	2"x2" PST	HYDRANT "356"; NOTE 1

SIGN TABLE									
POST NO.	ALIGNMENT	STATION	OFFSET	TYPE	SIZE (IN)	AREA (SF)	FACES	POST	DESCRIPTION
104	RR-ML	128+88.85	29.30 L	S5-1	24"x48"	8	E	EXISTING POST	"SCHOOL SPEED LIMIT 20" W/FLASHING LIGHTS
105	RR-ML	129+36.55	33.50 L	CUSTOM	12"x18"	1.5	S	2"x2" PST	HYDRANT "352"; NOTE 1
106	RR-ML	130+69.97	29.50 L	S1-1	36"x36"	9	E	2.5"x2.5" PST	SCHOOL CROSSING
				W16-9P	30"x18"	3.75	E		"AHEAD"
107	RR-ML	132+39.35	33.50 L	CUSTOM	12"x18"	1.5	S	2"x2" PST	HYDRANT "351"; NOTE 1

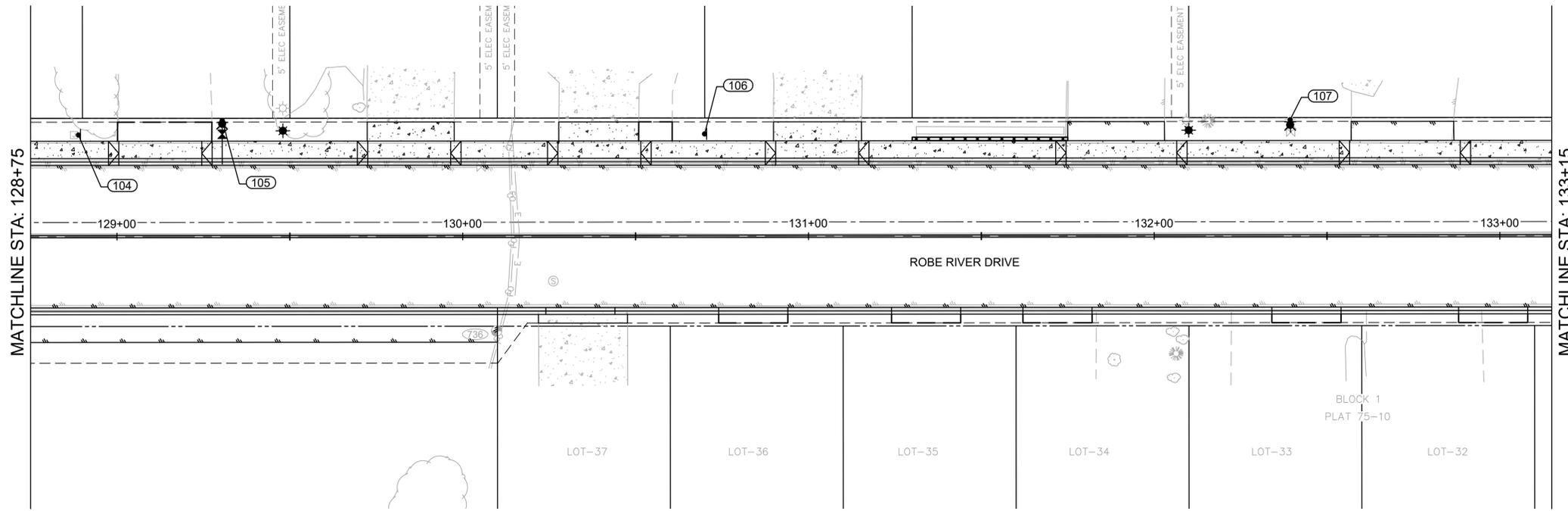
**GENERAL NOTES**

- (206) SIGN POST
- 1. HYDRANT SIGNS ARE TO BE FURNISHED BY CITY OF VALDEZ. SEE COV DETAIL 70-32 FOR INSTALLATION.
- 2. SEE COV DETAIL 70-31 FOR SIGN POST CONCRETE FOUNDATION INSTALLATION.
- 3. ALL SIGNS ARE TO BE INSTALLED AT A HEIGHT OF 7-FT CLEAR SPACE MINIMUM AND 2-FT CLEAR FROM FACE OF CURB. SEE COV DETAILS 70-22 THROUGH 70-27.
- 4. CENTERLINE STRIPING TO BE TWO LINES OF 4-IN SOLID YELLOW CENTERED ALONG THE ROAD ALIGNMENT CENTERLINE. OFFSET 2-IN EACH SIDE. SEE COV SPECIFICATIONS FOR APPLICATION AND TOLERANCES.
- 5. "CUSTOM" SIGN TYPES SHALL BE REPLACED TO MATCH EXISTING.
- 6. STREET SIGNS NOTED WITH (X2) ARE TO BE TWO SEPARATE STREET NAME PANELS WITH A STABILIZER BETWEEN THEM. SEE DETAIL 1/C-503.

REV	DATE	DESCRIPTION

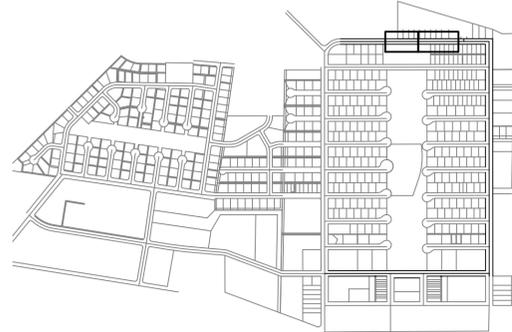


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MATCHLINE STA: 128+75

MATCHLINE STA: 133+15



**KEY MAP**  
 SCALE 1"=1000'

**VALDEZ PAVEMENT REHABILITATION  
 PHASE IV-ROBE RIVER DRIVE - ALTERNATE 4  
 SIGNING AND STRIPING**

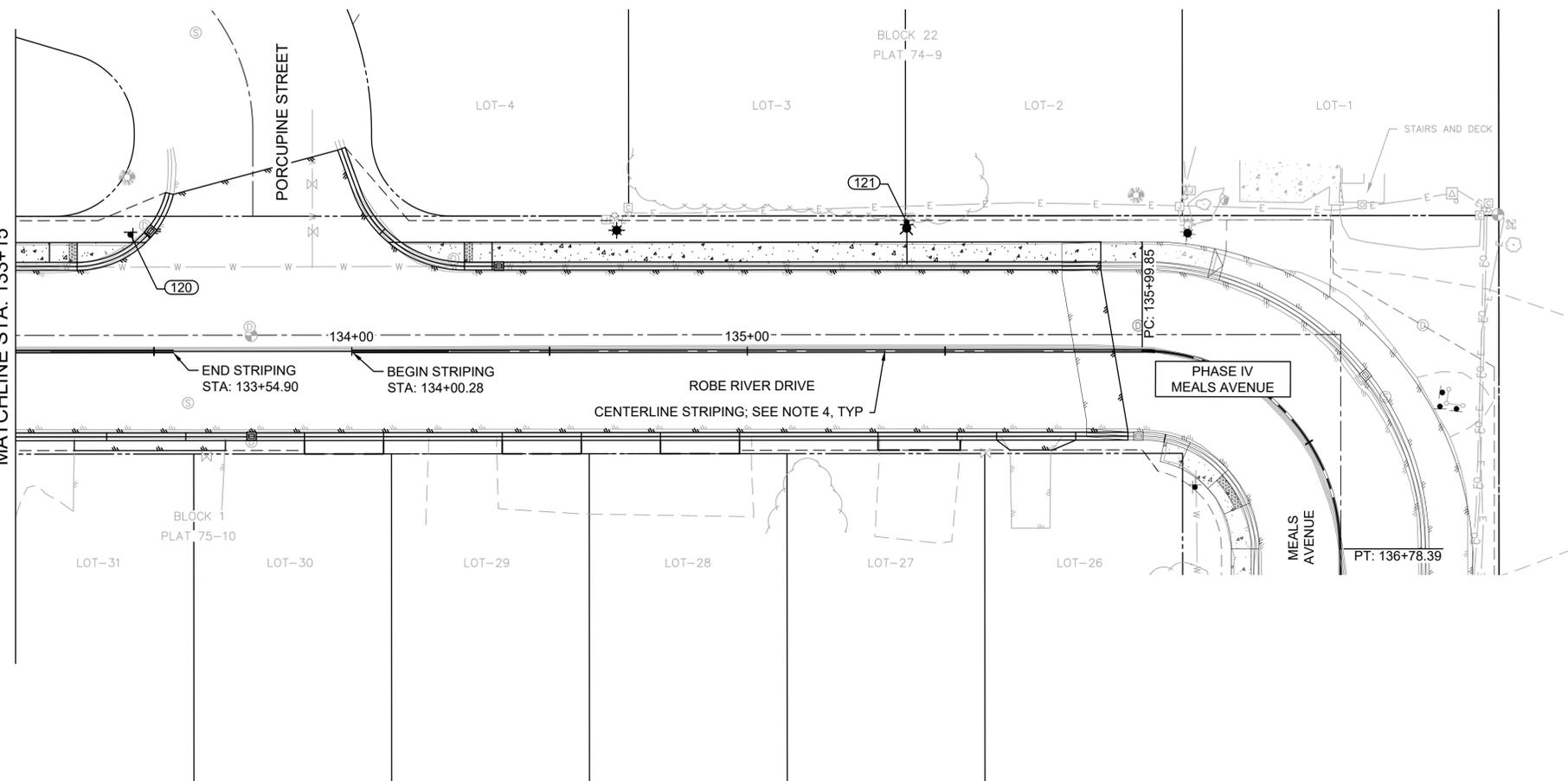
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**C-501**

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MATCHLINE STA: 133+15



SIGN TABLE									
POST NO.	ALIGNMENT	STATION	OFFSET	TYPE	SIZE (IN)	AREA (SF)	FACES	POST	DESCRIPTION
120	RR-ML	133+44.08	29.50 L	D3-1	36"x8"	4	E/W	2.5"x2.5" PST	"PORCUPINE ST" (X2); NOTE 6
				D3-1	42"x8"	4.7	N/S		"ROBE RIVER DR" (X2); NOTE 6
				R1-1	30"x30"	6.25	N		"STOP"
121	RR-ML	135+40.31	32.50 L	CUSTOM	12"x18"	1.5	S	2"x2" PST	HYDRANT "360"; NOTE 1

GENERAL NOTES

- (206) SIGN POST
- 1. HYDRANT SIGNS ARE TO BE FURNISHED BY CITY OF VALDEZ. SEE COV DETAIL 70-32 FOR INSTALLATION.
- 2. SEE COV DETAIL 70-31 FOR SIGN POST CONCRETE FOUNDATION INSTALLATION.
- 3. ALL SIGNS ARE TO BE INSTALLED AT A HEIGHT OF 7-FT CLEAR SPACE MINIMUM AND 2-FT CLEAR FROM FACE OF CURB. SEE COV DETAILS 70-22 THROUGH 70-27.
- 4. CENTERLINE STRIPING TO BE TWO LINES OF 4-IN SOLID YELLOW CENTERED ALONG THE ROAD ALIGNMENT CENTERLINE. OFFSET 2-IN EACH SIDE. SEE COV SPECIFICATIONS FOR APPLICATION AND TOLERANCES.
- 5. "CUSTOM" SIGN TYPES SHALL BE REPLACED TO MATCH EXISTING.
- 6. STREET SIGNS NOTED WITH (X2) ARE TO BE TWO SEPARATE STREET NAME PANELS WITH A STABILIZER BETWEEN THEM. SEE DETAIL 1/C-503.

REV	DATE	DESCRIPTION



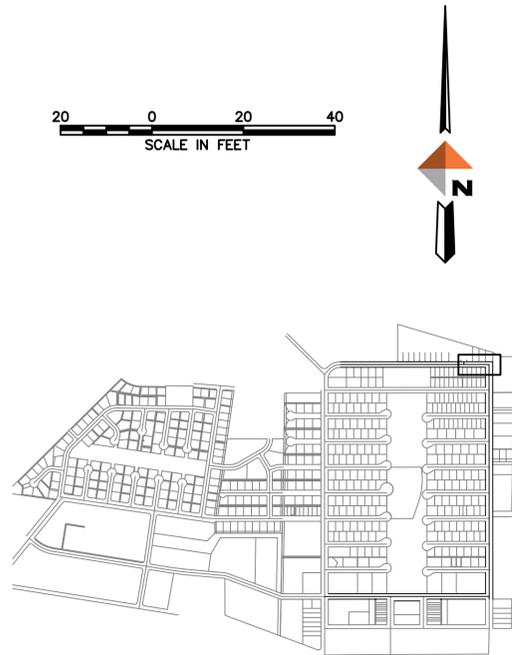
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VALDEZ PAVEMENT REHABILITATION  
PHASE IV-ROBE RIVER DRIVE - ALTERNATE 4  
SIGNING AND STRIPING

PROJECT 63461.01  
DATE 01/16/2026

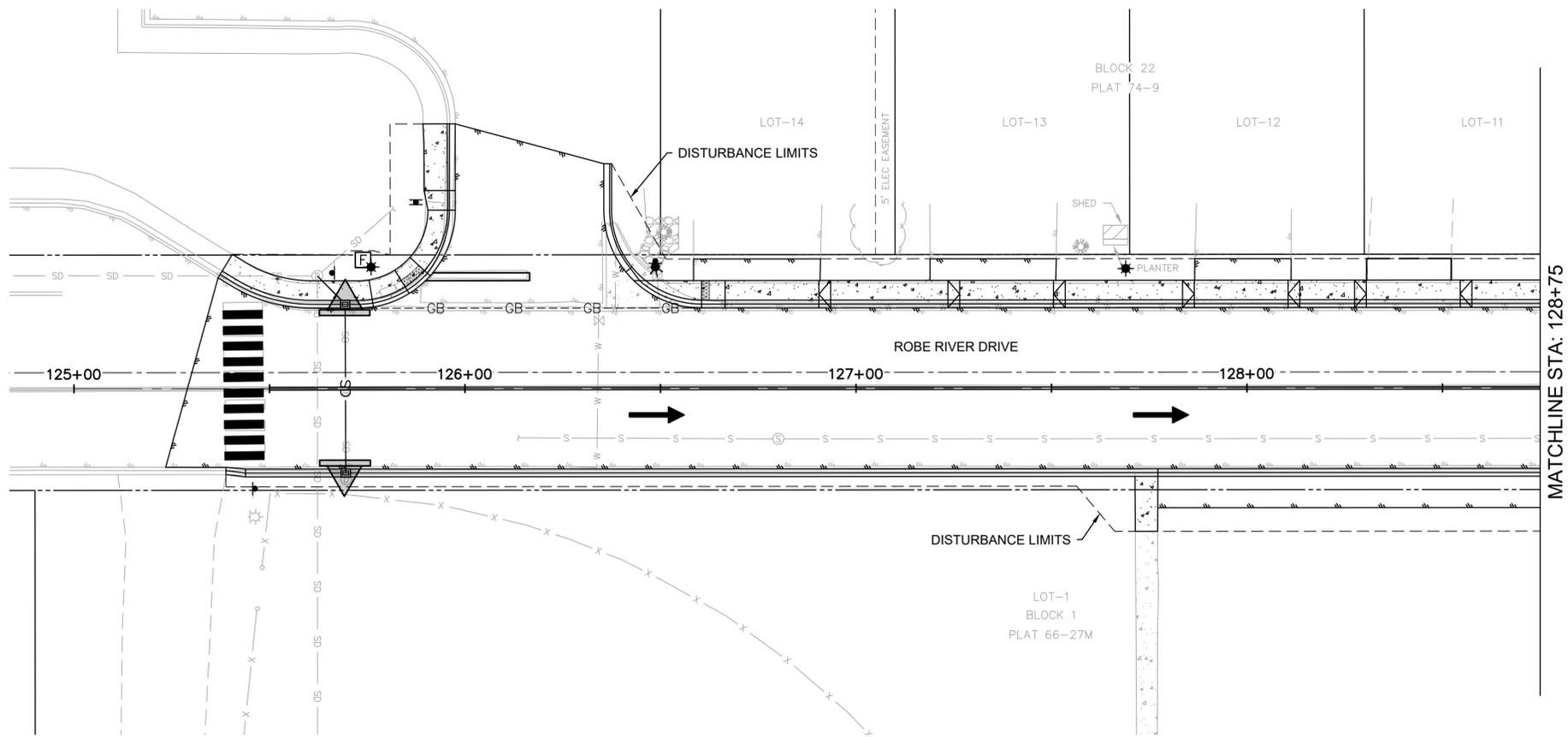
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C-502



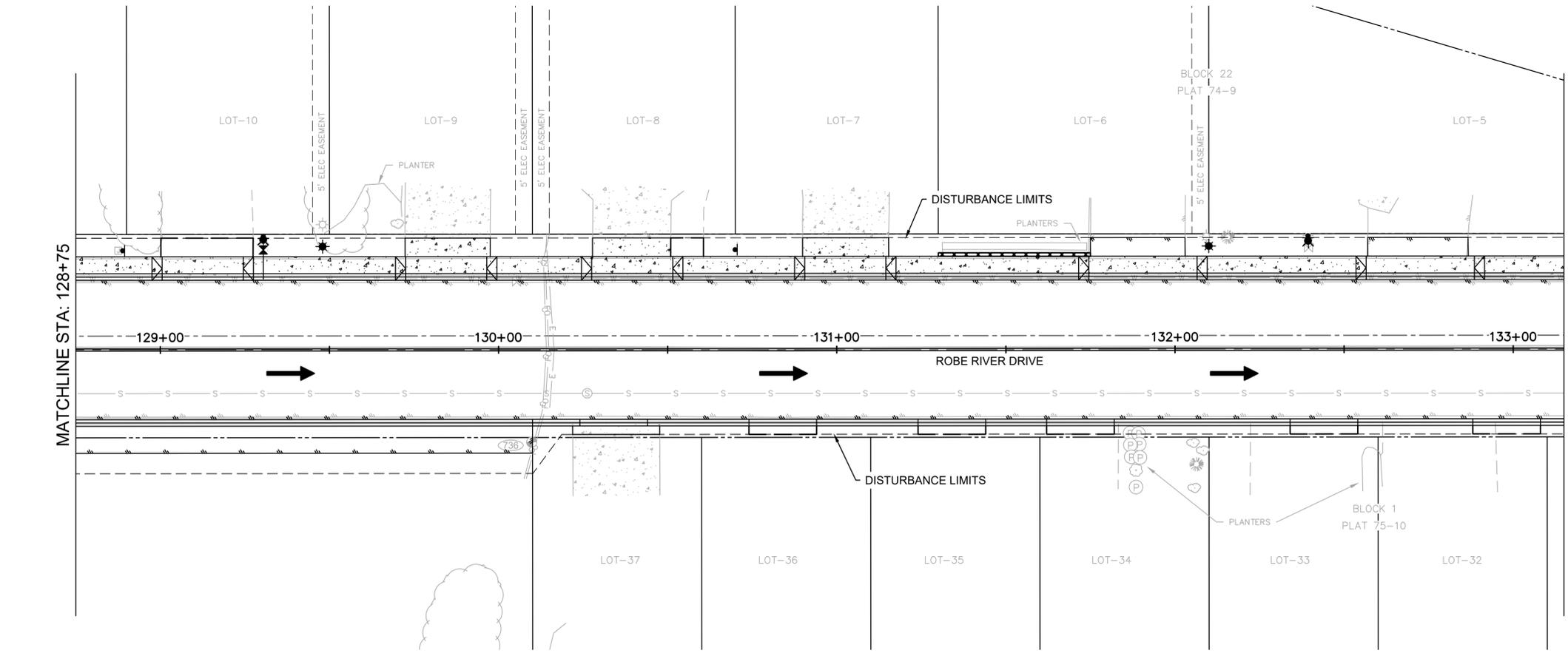


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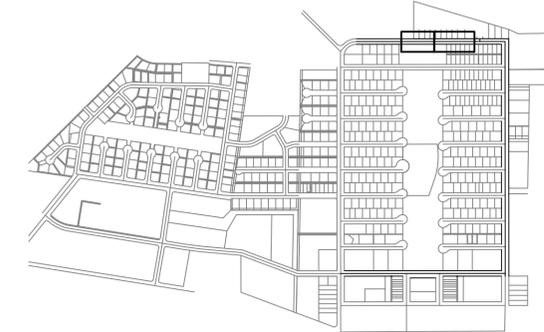
**GENERAL NOTES**

1. REFER TO CONTRACTOR SWPPP REPORT FOR EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES (BMPs).
2. CONTRACTOR SHALL UTILIZE BMPs MOST APPROPRIATE FOR CONDITIONS ON-SITE. IF INSPECTION REVEALS EROSION CONTROL MEASURES ARE INSUFFICIENT, THE CONTRACTOR SHALL IMMEDIATELY IMPLEMENT CORRECTIVE ACTION, AS NECESSARY, TO CORRECT THE DEFICIENCY.
3. ALL DISTURBED AREAS FOR THIS PROJECT ARE LOCATED AMID THE PROPOSED WORK SHOWN ON SHEETS C-601 THROUGH C-602.
4. THE CONTRACTOR SHALL USE CONTROL MEASURES TO ENSURE THAT CONSTRUCTION ACTIVITIES HAVE MINIMAL IMPACTS ON THE NATURAL BUFFER AREAS OF THE RECEIVING WATER BODY. DISTURBED AREAS ADJACENT TO DRAINAGE OR IN-WATER WORK SHALL BE RESTORED TO THEIR FUNCTIONAL CAPACITY OR PLANNED DESIGN, UNLESS DIRECTED OTHERWISE BY THE ENGINEER.
5. VEGETATION SHALL REMAIN UNDISTURBED TO THE FULLEST EXTENT POSSIBLE.
6. ALL DISTURBED AREAS NOT RECEIVING HMA PAVEMENT, PORTLAND CEMENT CONCRETE, OR RIPRAP, SHALL RECEIVE HYDROSEED WITH MULCH AS A FINAL STABILIZATION MEASURE, UNLESS OTHER TREATMENTS ARE REQUIRED BY PERMIT CONDITIONS.
7. ON-SITE DUST CONTROL, INCLUDING WATERING AND SWEEPING, SHALL BE PROVIDED BY THE CONTRACTOR TO MINIMIZE AIR-BORNE DUST WHEN NECESSARY OR DIRECTED BY THE ENGINEER. ROUTINE SWEEPING MAY BE PERFORMED IN LIEU OF UTILIZING A STABILIZED CONSTRUCTION EXIT UNLESS CONDITIONS NECESSITATE A MUD MAT.
8. ANY CONCRETE WASHOUT AREAS UTILIZED BY THE CONTRACTOR SHALL BE DESIGNATED, MAINTAINED, AND LOCATED, TO THE EXTENT PRACTICABLE, AWAY FROM WATER OF THE U.S. AND STORM WATER CONVEYANCE CHANNELS.
9. ALL DISCHARGE FROM EXCAVATION DEWATERING ACTIVITIES WILL BE TREATED WITH THE APPROPRIATE CONTROL MEASURES, UNTREATED WATER FROM CONSTRUCTION DEWATERING OPERATIONS SHALL NOT BE DISCHARGED TO ANY RECEIVING WATERS NOR SHALL UNTREATED WATER BE ALLOWED TO RUN OFF-SITE, UNLESS THE WATER IS NON-DISCHARGED.
10. PROVIDE INLET PROTECTION FOR EXISTING CATCH BASINS UNTIL STRUCTURE IS REMOVED, TYP. PROVIDE INLET PROTECTION FOR PROPOSED CATCH BASINS ONCE INSTALLED.



**ESCP LEGEND**

DESCRIPTION	SYMBOL
INLET PROTECTION	
STORM WATER FLOW	
SEDIMENT BARRIER	



**KEY MAP**  
SCALE 1"=1000'

REV	DATE	DESCRIPTION	BY



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VALDEZ PAVEMENT REHABILITATION  
PHASE IV-ROBE RIVER DRIVE - ALTERNATE 4  
EROSION AND SEDIMENT CONTROL PLAN

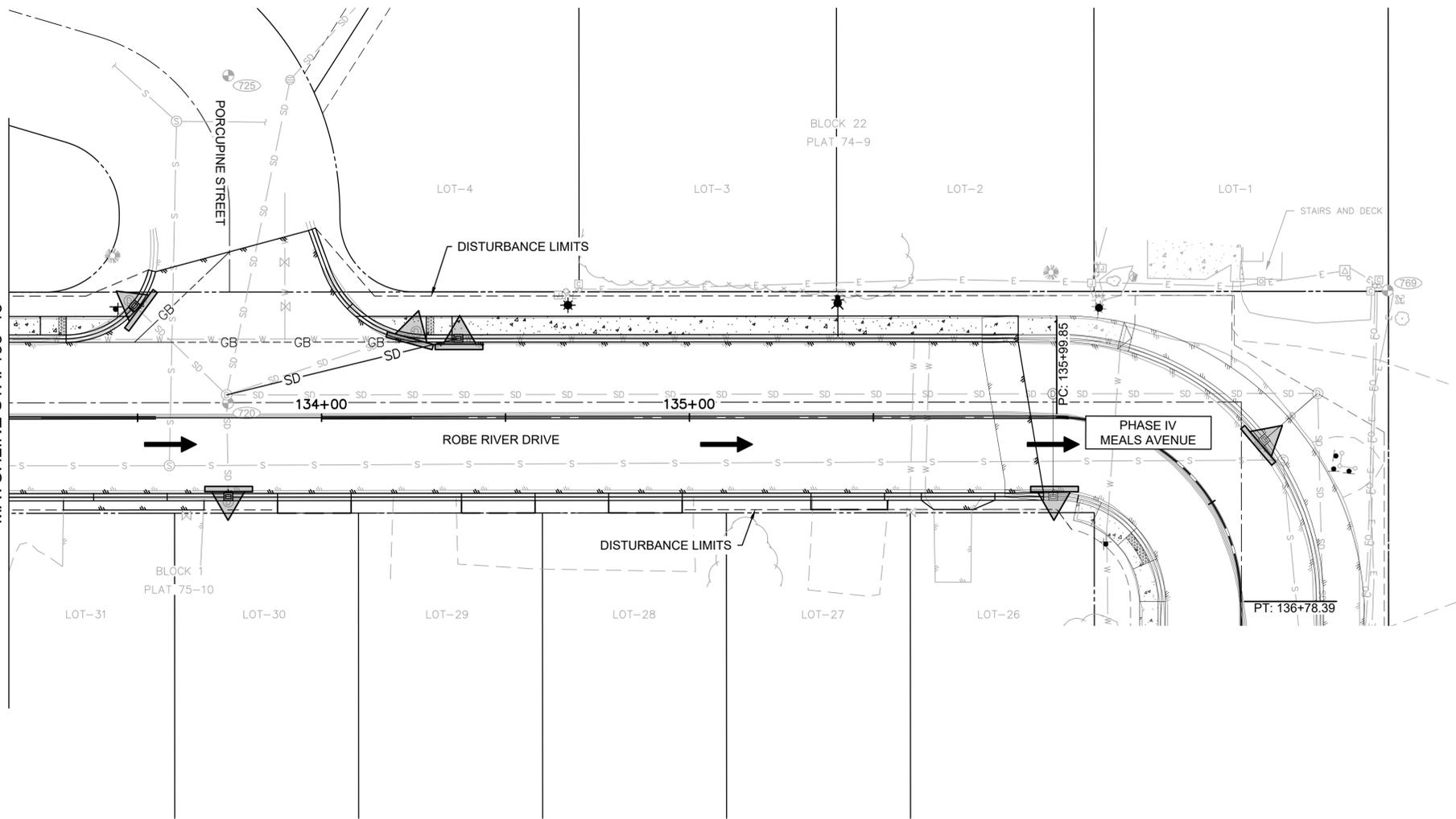
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**C-601**

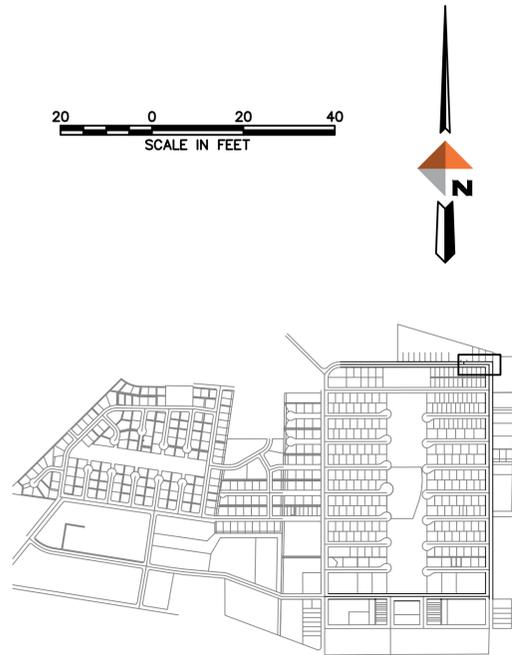
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MATCHLINE STA: 133+15



**ESCP LEGEND**

DESCRIPTION	SYMBOL
INLET PROTECTION	
STORM WATER FLOW	
SEDIMENT BARRIER	



**KEY MAP**  
SCALE 1"=1000'

REV	DATE	DESCRIPTION	BY



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PHASE IV-ROBE RIVER DRIVE - ALTERNATE 4  
EROSION AND SEDIMENT CONTROL PLAN

PROJECT 63461.01  
DATE 01/16/2026

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**C-602**

VALDEZ, ALASKA

LEGEND	
	POLE MOUNTED AREA LIGHT - OUTDOORS, WEATHERPROOF
	FIXTURE TAG (LETTER INDICATES TYPE)
	SINGLE POLE SWITCH
	PHOTOCELL
	CONDUIT, CONCEALED
	NUMBER AND SIZE OF WIRES (NO MARKS = 3 #12)
	HOMERUN TO PANEL (PANEL AND CIRCUIT No.)
	OVERHEAD ELECTRICAL LINE
	UNDERGROUND ELECTRICAL LINE
	ADD ALT #6 UNDERGROUND FIBER OPTIC LINE (CONDUIT ONLY)
	PANEL
	DUPLEX RECEPTACLE WITH GROUND FAULT CIRCUIT INTERRUPTER
	JUNCTION BOX
	PADMOUNT UTILITY TRANSFORMER
	IN GRADE EXTERIOR JUNCTION BOX - TYPE 1A UON
	ADD ALT #6 IN GRADE EXTERIOR FIBER OPTIC HANDHOLE
	ADD ALT #6 IN GRADE EXTERIOR FIBER OPTIC VAULT
	DUPLEX RECEPTACLE TO BE REMOVED (DASHED OR DOTTED LINES INDICATE ITEMS TO BE REMOVED TYPICAL)
	NOTE TAG (No. INDICATES NOTE)
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
C	CONDUIT
CO	CONDUIT ONLY
E	DENOTES EXISTING ITEM
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GRSC	GALVANIZED RIGID STEEL CONDUIT
HDPE	HIGH DENSITY POLYETHYLENE CONDUIT (ADDITIVE ALTERNATE #3)
K	KELVIN
L#	LIGHT POLE NUMBER (IE L1)
LED	LIGHT EMITTING DIODE
LM	LUMENS
MCB	MAIN CIRCUIT BREAKER
MLO	MAIN LUGS ONLY
NEC	NATIONAL ELECTRICAL CODE
NTS	NOT TO SCALE
R	DENOTES EXISTING ITEM THAT HAS BEEN RELOCATED
TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSION
TYP	TYPICAL
UON	UNLESS OTHERWISE NOTED
WP	WEATHERPROOF

LIGHT FIXTURE SCHEDULE									
TYPE	LOCATION	MANUFACTURER AND CATALOG NUMBER (OR APPROVED EQUAL)	LUMINAIRE DESCRIPTION	MOUNTING			BALLAST/DRIVER	TOTAL INPUT WATTS	
				TYPE	HEIGHT	LAMPS			
A1	AS SHOWN	CREE - QUANTITY (1) STR-LWY-2M-HT-04-E-UL-SV-525-40K-XA-XSLBLS60	LED STREET LIGHT, ALUMINUM HOUSING, TYPE 2 MEDIUM DISTRIBUTION, 40 LED, BACKLIGHT SHIELD, AND SILVER COLOR. MOUNT ON 25' POLE WITH 6' MAST ARM.	POLE/MAST ARM	27'-6" AFG	6000LM 4000K	120/240/277V	66	
A2	AS SHOWN	CREE - QUANTITY (2) STR-LWY-2M-HT-04-E-UL-SV-525-40K-XA-XSLBLS60	SAME AS TYPE A1 EXCEPT TWO FIXTURES MOUNTED ON ONE POLE.	POLE/MAST ARM	27'-6" AFG	6000LM 4000K EACH	120/240/277V	66 EACH	

Voltage Drop Calculation		RSA Engineering, Inc.
Job Name:	Valdez Pavement Management Phase IV	
Job Number:	M2078	
Feeder/Circuit From:	Panel 'ML'	
Feeder/Circuit To:	Furthest Light Pole L1	
Date:	1/16/2026	

Circuit Description		
Circuit Length(1-WAY):	3700 ft.	Includes loops in JB's
Load Current:	5,225 amps	
Voltage:	240 volts	

Circuit Type	
2	1. 1 phase, 2 wire (120V or 277V) 2. 1 phase, 3 wire line to line (208V or 480V, 1 ph) 3. 1 phase, 3 wire line to neutral 4. 3 phase, 3 or 4 wire line to lin (208V or 480V, 3ph) 5. 3 phase, 3 or 4 wire line to neutral

Power Factor	
1	1. 100%      4. 70% 2. 90%        5. 60% 3. 80%

Conductor Size		
#	4	AWG
Conductor Type		
1	Copper	
2	Aluminum	
Conduit Type		
2	Non-Magnetic	
1	Magnetic	
2	Non-Magnetic	
Number of Parallel Runs		
1	Set	
Total Voltage Drop		11.97 Volts
Voltage Drop Percentage		4.99 %

LIGHT POLE SCHEDULE						
POLE #	ALGN	STATION	OFFSET	SIDE	CIRCUIT	
L1	RR	125+76.00	31.00	L	ML-1,3	
L2	RR	127+69.00	30.50	L	ML-1,3	
L3	RR	129+48.00	30.50	L	ML-1,3	
L4	RR	132+10.00	30.50	L	ML-1,3	
L5	RR	134+67.00	30.50	L	ML-1,3	

EXISTING LOADCENTER PANEL 'ML'													
LIGHTING LOADCENTER				VOLTS: 120/240V, 1PH, 3W				ENCLOSURE: NEMA 3R				100 A	
TYPE: PANELBOARD				VOLT-AMPS				MTG: SURFACE					
NOTE	CIRC	POLE	AMPS	SERVICE	TYPE	A	B	TYPE	SERVICE	AMPS	POLE	CIRC	NOTE
a	1	2	20	NEW ROBE & (E)MEALS LTG L1-L15	LTG	561	462		(E)MEALS/PION. LTG L16-L25	20	2	2	b
a	3	2	20	AA	LTG		561	462	AA	20	2	4	b
	5	2	20	SPARE					SPARE	20	2	6	
	7	2		AA					AA		2	8	
	9	1	-	SPACE					SPACE	-	1	10	
	11	1	-	SPACE					SPACE	-	1	12	
TOTAL V-A						1,023		1,023		2,046		VA	
TOTAL AMPS						9		9		9		A	
A.I.C. RATING: 10,000													
TOTAL CONNECTED LOAD IN KVA:						2.05	0.00	0.00	0.00	0.00	TOTAL		AMPS
DEMAND LOAD IN KVA:						2.56	0.00	0.00	0.00	0.00	2.0 KVA		9 A
											2.6 KVA		11 A
PANEL NOTES:								PANEL OPTIONS:					
a DENOTES NEW & EXISTING LOADS ON EXISTING BREAKER.								MAIN LUGS ONLY					
b DENOTES EXISTING LOADS/BREAKER TO REMAIN.													

REV	DATE	DESCRIPTION
1	5/16/25	REF #001 ADDITIONAL LIGHT POLE



**RSA Engineering, Inc.**  
 MECHANICAL AND ELECTRICAL CONSULTING ENGINEERS  
 670 West Frenwick Lane, Suite 200  
 Anchorage, AK 99503  
 Phone (907) 276-0521  
 Corporate No.: AEC042

VALDEZ PAVEMENT REHABILITATION  
 PHASE IV - ROBE RIVER DRIVE - ALTERNATE 4  
**ELECTRICAL LEGEND, SCHEDULES  
 AND CALCULATIONS**  
 VALDEZ, ALASKA

RSA PROJECT M2078  
 DATE 01/16/2026

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E-001

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# ELECTRICAL SPECIFICATIONS

## 26 05 00 - COMMON WORK RESULTS FOR ELECTRICAL

- A. SCOPE OF WORK: FURNISH AND INSTALL ALL MATERIAL AND EQUIPMENT FOR A COMPLETE AND WORKABLE ELECTRICAL SYSTEM AS INDICATED ON THE DRAWINGS AND IN THESE SPECIFICATIONS.
- B. STANDARDS, CODES AND REGULATIONS: COMPLY WITH THE LATEST ADOPTED EDITION OF THE NATIONAL ELECTRICAL CODE, AND THE CITY OF VALDEZ STANDARD SPECIFICATIONS (CVSS), INCLUDING ALL STATE AND LOCAL AMENDMENTS. COMPLY WITH THE LATEST PUBLISHED VERSION OF THE NECA STANDARD OF INSTALLATION. IN THE ABSENCE OF CVSS PERTAINING TO STREET LIGHTING SYSTEMS, REFERENCES TO MUNICIPALITY OF ANCHORAGE STANDARD SPECIFICATIONS (MASS) HAVE BEEN ADDED TO THESE SPECIFICATIONS AND DRAWINGS TO ASSIST WITH SPECIFIC CRITERIA. A COPY OF THE MASS CAN BE FOUND ONLINE AT MUNI.ORG.
- C. DRAWINGS: THE DRAWINGS ARE DIAGRAMMATIC, NOT NECESSARILY SHOWING ALL OFFSETS OR EXACT LOCATIONS OF FIXTURES, EQUIPMENT, ETC. UNLESS SPECIFICALLY DIMENSIONED. BRING QUESTIONABLE OR OBSCURE ITEMS, APPARENT CONFLICTS BETWEEN PLANS AND SPECIFICATIONS, GOVERNING CODES OR UTILITIES REGULATIONS TO THE ATTENTION OF THE ENGINEER. CODES, ORDINANCES, REGULATIONS, MANUFACTURER'S INSTRUCTIONS OR STANDARDS TAKE PRECEDENCE WHEN THEY ARE MORE STRINGENT OR CONFLICT WITH THE DRAWINGS AND SPECIFICATIONS.
- D. RECORD DRAWINGS: MARK UP A CLEAN SET OF DRAWINGS AS THE WORK PROGRESSES TO SHOW THE DIMENSIONED LOCATION AND ROUTING OF ALL ELECTRICAL WORK WHICH WILL BECOME PERMANENTLY CONCEALED. SHOW COMPLETE ROUTING AND SIZING OF ANY SIGNIFICANT REVISIONS TO THE SYSTEMS SHOWN.
- E. WORKMANSHIP: INSTALLATION OF ALL WORK SHALL BE MADE SO THAT ITS SEVERAL COMPONENT PARTS SHALL FUNCTION AS A WORKABLE SYSTEM COMPLETE WITH ALL ACCESSORIES NECESSARY FOR ITS OPERATION. ALL MATERIAL AND EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS, INSTRUCTIONS AND/OR INSTALLATION DRAWINGS AND IN ACCORDANCE WITH NECA STANDARDS. MATERIALS AND EQUIPMENT SHALL BE NEW AND SHALL CONFORM WITH APPLICABLE INDUSTRY STANDARDS, NEMA STANDARDS AND UNDERWRITERS LABORATORIES STANDARDS WHERE APPLICABLE.
- F. SUBMITTALS: PROVIDE MATERIAL AND EQUIPMENT SUBMITTALS CONTAINING A COMPLETE LISTING OF MATERIAL AND EQUIPMENT SHOWN ON THE DRAWINGS. INCLUDE CATALOG NUMBERS, WIRING DIAGRAMS, ROUGH-IN DIMENSIONS AND PERFORMANCE DATA FOR ALL MATERIAL AND EQUIPMENT. SUBMITTALS SHALL BE IN ELECTRONIC .PDF FORMAT, SEPARATE FROM WORK FURNISHED UNDER OTHER DIVISIONS. INDEX AND CLEARLY IDENTIFY ALL MATERIAL AND EQUIPMENT BY ITEM, NAME OR DESIGNATION USED ON THE DRAWINGS. SUBMITTAL REVIEW IS FOR GENERAL DESIGN AND ARRANGEMENT ONLY AND DOES NOT RELIEVE THE CONTRACTOR FROM ANY REQUIREMENTS OF THE CONTRACT DOCUMENTS. THE SUBMITTALS ARE NOT CHECKED FOR QUANTITY, DIMENSION, OR FOR PROPER OPERATION. WHERE DEVIATIONS OF A SUBSTITUTE PRODUCT OR SYSTEM PERFORMANCE HAVE NOT BEEN SPECIFICALLY NOTED IN THE SUBMITTAL BY THE CONTRACTOR, PROVISIONS OF A COMPLETE AND SATISFACTORY WORKING INSTALLATION IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- G. OPERATION AND MAINTENANCE MANUALS: PROVIDE OPERATION AND MAINTENANCE MANUALS FOR TRAINING OF THE OWNER'S PERSONNEL. DESCRIBE THE PROCEDURES NECESSARY TO OPERATE THE SYSTEM INCLUDING START-UP, OPERATION, EMERGENCY OPERATION AND SHUTDOWN. PROVIDE INSTRUCTIONS AND A SCHEDULE OF PREVENTIVE MAINTENANCE IN TABULAR FORM FOR ALL ROUTINE CLEANING, INSPECTION AND LUBRICATION WITH RECOMMENDED LUBRICANTS. PROVIDE INSTRUCTIONS FOR MINOR REPAIR OR ADJUSTMENTS REQUIRED FOR PREVENTIVE MAINTENANCE ROUTINES. PROVIDE MANUFACTURER'S DESCRIPTIVE LITERATURE INCLUDING APPROVED SHOP DRAWINGS COVERING DEVICES USED IN ANY CONTRACTOR-PROVIDED EQUIPMENT OR SYSTEMS WITH ILLUSTRATION, EXPLODED VIEWS, ETC.
- H. WARRANTY: THE CONTRACTOR SHALL GUARANTEE ALL WORK EXECUTED UNDER THIS CONTRACT TO BE FREE FROM DEFECTS IN MATERIALS AND WORKMANSHIP FOR A PERIOD OF ONE YEAR FROM BENEFICIAL OCCUPANCY. ANY FAULTY MATERIALS OR WORKMANSHIP SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE OWNER DURING THE GUARANTEE PERIOD.
- I. PERMITS: SECURE AND PAY FOR ALL FEES, PERMITS, ETC. REQUIRED BY LOCAL AND STATE AGENCIES AND ALL LOCAL UTILITY COMPANIES. COSTS FOR THE LINE EXTENSION TO THE METER ARE PAID FOR BY THE OWNER.

## 26 05 05 - SELECTIVE DEMOLITION FOR ELECTRICAL

- A. DEMOLITION DRAWINGS ARE BASED ON CASUAL FIELD OBSERVATION AND EXISTING RECORD DRAWINGS. REPORT DISCREPANCIES TO ENGINEER BEFORE DISTURBING THE EXISTING INSTALLATION. DISCONNECT ELECTRICAL SYSTEMS SCHEDULED FOR REMOVAL. PROVIDE TEMPORARY WIRING AND CONNECTIONS TO MAINTAIN ALL EXISTING ELECTRICAL SYSTEMS IN SERVICE DURING CONSTRUCTION. DISABLE SYSTEMS ONLY TO MAKE SWITCHOVERS AND CONNECTIONS.
- B. OBTAIN PERMISSION FROM OWNER AT LEAST 24 HOURS BEFORE PARTIALLY OR COMPLETELY DISABLING SYSTEM. MINIMIZE OUTAGE DURATION AND MAKE TEMPORARY CONNECTIONS TO MAINTAIN SERVICE IN AREAS ADJACENT TO WORK AREA. WHEN WORK MUST BE PERFORMED ON ENERGIZED EQUIPMENT OR CIRCUITS, USE PERSONNEL EXPERIENCED IN SUCH OPERATIONS.
- C. REMOVE, RELOCATE AND EXTEND EXISTING INSTALLATIONS TO ACCOMMODATE NEW CONSTRUCTION. REMOVE ABANDONED WIRING TO SOURCE OF SUPPLY. REMOVE EXPOSED ABANDONED CONDUIT. WHERE ABANDONED CONDUIT ENTERS BELOW GRADE, CUT CONDUIT TO A MINIMUM OF 6" BELOW GRADE, CAP OFF, AND REPAIR SURFACE.
- D. DISCONNECT AND REMOVE ABANDONED PANELBOARDS AND DISTRIBUTION EQUIPMENT. DISCONNECT AND REMOVE ELECTRICAL DEVICES AND EQUIPMENT SERVING UTILIZATION EQUIPMENT THAT HAS BEEN REMOVED. DISCONNECT AND REMOVE ABANDONED LUMINAIRES. REMOVE BRACKETS, STEMS, HANGERS AND OTHER ACCESSORIES. REPAIR ADJACENT SURFACES AFTER DEMOLITION. MAINTAIN ACCESS TO EXISTING ELECTRICAL INSTALLATIONS WHICH REMAIN ACTIVE.
- E. CONTRACTOR TO FIELD VERIFY ELECTRICAL ITEMS TO BE DEMOLISHED PRIOR TO START OF WORK. DEMOLISH CONDUITS, BOXES, DEVICES, EQUIPMENT, ETC. THAT ARE SCHEDULED FOR DEMOLITION. WHERE CIRCUITS ARE SHARED WITH EQUIPMENT THAT IS EXISTING TO REMAIN, PROVIDE ALL WORK NECESSARY (INCLUDING EXTENDING AND RE-ROUTING CONDUITS) TO MAINTAIN ACCESS AND PROVIDE ELECTRICAL CONTINUITY TO EXISTING SYSTEMS AND CIRCUITRY

## 26 05 19 - WIRE AND CABLE

- B. SUBMITTALS: SUBMIT PRODUCT DATA FOR APPROVAL.
- C. MATERIALS:
- ALL CONDUCTORS SHALL BE COPPER WITH TYPE XHHW-2 INSULATION. MINIMUM BRANCH CIRCUIT CONDUCTOR SIZE SHALL BE 12 AWG.
- C. INSTALLATION:
- COLOR CODE WIRES BY LINE OR PHASE. COLOR CODE THE 120/240V CONDUCTORS BLACK, RED, AND WHITE.
  - DO NOT SHARE NEUTRAL CONDUCTORS. PROVIDE A DEDICATED NEUTRAL CONDUCTOR FOR EACH BRANCH CIRCUIT THAT REQUIRES A NEUTRAL.
  - USE PROPERLY SIZED INSULATED SPRING WIRE CONNECTORS WITH PLASTIC CAPS FOR ALL CONDUCTORS #8 AWG AND SMALLER. TERMINATE #6 AWG AND LARGER CONDUCTORS WITH CRIMP OR COMPRESSION TYPE CONNECTORS INSTALLED WITH TOOL RECOMMENDED BY CONNECTION MANUFACTURER AND INSULATE WITH PROPERLY SIZED 600 VOLT RATED HEAT SHRINK TUBING.
  - INSTALLATION SCHEDULE: BUILDING WIRE IN CONDUIT AT ALL LOCATIONS UNLESS OTHERWISE NOTED.

## 26 05 26 - GROUNDING AND BONDING

- A. SUBMITTALS: SUBMIT PRODUCT DATA FOR GROUND RODS.
- B. MATERIAL: SOLID GROUND RODS: COPPER-ENCASED STEEL, 3/4 INCH DIAMETER, MINIMUM LENGTH 10 FEET.
- C. INSTALLATION:
- PROVIDE A SEPARATE, INSULATED EQUIPMENT GROUNDING CONDUCTOR IN ALL BRANCH CIRCUITS AND FEEDERS. TERMINATE EACH END ON A GROUNDING LUG, BUS, OR BUSHING.
  - MECHANICAL CONNECTORS: NON-REVERSIBLE CRIMP TYPE LUGS ONLY. USE FACTORY MADE COMPRESSION LUG FOR ALL TERMINATIONS. FOR TELECOMMUNICATION SYSTEMS USE COPPER, COPPER ALLOY, OR TIN-PLATED COPPER, NON-REVERSIBLE LONG BARREL CRIMP TYPE BOLT LUGS WITH TWO BOLT TONGUES FOR 6 AWG OR LARGER CONDUCTORS. CRIMP TYPE ONE HOLE FOR CONDUCTORS SMALLER THAN 6 AWG.
  - BOND TOGETHER SYSTEM NEUTRALS, SERVICE EQUIPMENT ENCLOSURES, EXPOSED NON-CURRENT CARRYING METAL PARTS OF ELECTRICAL EQUIPMENT, METAL RACEWAY SYSTEMS, GROUNDING CONDUCTOR IN RACEWAYS AND CABLES, RECEPTACLE GROUND CONNECTORS, AND PLUMBING AND FUEL SYSTEMS.

## 26 05 29 - HANGERS AND SUPPORTS FOR ELECTRICAL SYSTEMS

- A. SUBMITTALS: NONE REQUIRED FOR THIS SECTION.
- B. MATERIAL: EQUIPMENT SUPPORT CHANNEL SHALL BE CORROSION RESISTANT STAINLESS STEEL OR FIBERGLASS. HARDWARE SHALL BE CORROSION RESISTANT.
- C. INSTALLATION: EQUIPMENT WEIGHING MORE THAN 50 POUNDS SHALL BE ADEQUATELY ANCHORED TO RESIST LATERAL EARTHQUAKE FORCES.

## 26 05 33 - RACEWAY AND BOXES FOR ELECTRICAL SYSTEMS

- A. SUBMITTALS: SUBMIT PRODUCT DATA FOR APPROVAL.
- B. MATERIALS:
- RIGID STEEL CONDUIT: ANSI C80.1, GALVANIZED RIGID STEEL CONDUIT (GRSC). FITTINGS AND CONDUIT BODIES: ANSI/NEMA FB 1; THREADED TYPE WITH INSULATED THROAT BUSHINGS, MATERIAL TO MATCH CONDUIT. PROVIDE PVC COATED RIGID CONDUIT WHERE EXPOSED OUTDOORS, 40 MIL EXTERIOR COATING AND 2 MIL INTERIOR COATING. CONDUIT FITTINGS SHALL MATCH CONDUIT TYPE (IE PVC COATED RIGID FITTINGS WHERE PVC COATED RIGID IS REQUIRED).
  - ADDITIVE ALTERNATE #3 & #6 - HIGH DENSITY POLYETHYLENE CONDUIT (HDPE): NEMA TC 7, SCHEDULE 40, HDPE CONDUIT RATED FOR 90°C CABLE. FITTINGS AND CONDUIT BODIES: NEMA TC 7. HDPE TO HDPE COUPLINGS: UL LISTED, BUTT-FUSION, ELECTRO-FUSION, SELF-THREADING, OR DRIVE-ON TYPE. HDPE TO RIGID COUPLINGS: DURALINE #SHUR-LOCK II, OR EQUAL.
  - PROVIDE TYPE 1A CONCRETE JUNCTION BOXES IN-GRADE WHERE SHOWN ON DRAWINGS. TYPE 1A JUNCTION BOX CONSISTING OF REINFORCED CONCRETE RATED FOR A MINIMUM TEST LOAD OF 7500 POUNDS DISTRIBUTED OVER A 10"x10" AREA, LIGHT TRAFFIC RATED, CAST-IRON LID WITH "LIGHTING" LABEL, AND STAINLESS STEEL HARDWARE.
  - ADDITIVE ALTERNATE #6 - FIBER OPTIC VAULT: 48"x48"x48" CONCRETE VAULT WITH MANHOLE LID RATED FOR AASHTO HS-20-44 LOADING. SEE CIVIL DRAWINGS FOR DETAILS.
- C. INSTALLATION:
- INSTALL GALVANIZED RIGID STEEL CONDUIT UNDERGROUND AND ABOVE GRADE WHERE NOTE EXPOSED TO THE ELEMENTS (IE STUBBED UP UNDER EQUIPMENT), UNLESS OTHERWISE NOTED. PROVIDE PVC COATED RIGID STEEL CONDUIT WHERE EXPOSED OUTDOORS.
  - ADDITIVE ALTERNATE #3: SCHEDULE 40 HDPE CONDUIT APPROVED FOR USE IN UNDERGROUND APPLICATIONS ONLY.
  - PROVIDE OUTLET BOXES AS SHOWN ON THE DRAWINGS, AND AS REQUIRED FOR SPLICES, TAPS, WIRE PULLING, EQUIPMENT CONNECTIONS, DEVICE INSTALLATION AND CODE COMPLIANCE.

## 26 05 53 - IDENTIFICATION FOR ELECTRICAL SYSTEMS

- A. SUBMITTALS: NONE REQUIRED FOR THIS SECTION.
- B. MATERIALS:
- NAMEPLATES: ENGRAVED THREE-LAYER LAMINATED PLASTIC, WHITE LETTERS ON A BLACK BACKGROUND. NAMEPLATES SHALL BE PROVIDED TO IDENTIFY ALL ELECTRICAL DISTRIBUTION AND CONTROL EQUIPMENT AND LOADS SERVED.
  - TAPE LABELS: ADHESIVE TAPE LABELS, WITH 3/16 INCH BOLD BLACK LETTERS ON CLEAR BACKGROUND MADE USING DYMO RHINOPRO 5000 OR EQUAL LABEL PRINTER.
  - WIRE AND CABLE MARKERS: CLOTH MARKERS, SPLIT SLEEVE OR TUBING TYPE.
- C. INSTALLATION:
- GEAR: PROVIDE ENGRAVED THREE-LAYER LAMINATED PLASTIC NAMEPLATES WITH WHITE LETTERS ON A BLACK BACKGROUND TO IDENTIFY ALL ELECTRICAL DISTRIBUTION, CONTROL EQUIPMENT, LOADS SERVED, AND LOW-VOLTAGE SYSTEM PANELS.
  - CONDUITS: LABEL CONDUITS AT EACH END WITH SOURCE AND TERMINATION POINT.
  - JUNCTION BOXES: MARK ALL CIRCUIT NUMBERS OF WIRING ON ALL JUNCTION BOXES WITH SHEET STEEL COVERS. MARK WITH INDELIBLE BLACK MARKER. ON EXPOSED JUNCTION BOXES IN PUBLIC AREAS, MARK ON INSIDE OF COVER.
  - WIRE IDENTIFICATION: PROVIDE WIRE MARKERS ON EACH CONDUCTOR IN PANELBOARD GUTTERS, PULL BOXES, OUTLET AND JUNCTION BOXES, AND AT LOAD CONNECTION. MARKERS SHALL BE LOCATED WITHIN ONE INCH OF EACH CABLE END, EXCEPT AT PANELBOARDS, WHERE MARKERS FOR BRANCH CIRCUIT CONDUCTORS SHALL BE VISIBLE WITHOUT REMOVING PANEL DEADFRONT.

## 26 50 00 - LIGHTING FIXTURES

- A. SUBMITTALS:
- SUBMIT PRODUCT DATA ON LIGHT FIXTURES, POLES, ARMS, PILES, AND ALL ACCESSORIES FOR APPROVAL.
  - SUBMIT STRUCTURALLY ENGINEERED SHOP DRAWINGS AND CALCULATIONS, STAMPED AND SIGNED BY A LICENSED STRUCTURAL ENGINEER IN THE STATE OF ALASKA, FOR LIGHT POLES/ARM ASSEMBLIES AND PILES. DRAWINGS AND CALCULATIONS SHALL STATE CONFORMANCE TO THE INTERNATIONAL BUILDING CODE (IBC), THE AMERICAN SOCIETY OF CIVIL ENGINEERS (ASCE), AND THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS (AASHTO) REQUIREMENTS SPECIFIC TO THE PROJECT AREA.
  - FIXTURE SUBSTITUTIONS SHALL BE SUBMITTED WITH POINT-BY-POINT LIGHTING CALCULATIONS ON A 2'X2' GRID SHOWING COMPLIANCE WITH THE ILLUMINATING ENGINEERING SOCIETY OF NORTH AMERICA (IESNA) RECOMMENDED LIGHTING LEVELS AND UNIFORMITY THROUGHOUT THE PROJECT AREA. LIGHT FIXTURE SUBSTITUTIONS WILL NOT BE CONSIDERED WITHOUT THE REQUIRED LIGHTING CALCULATIONS. FIXTURE, POLE AND ARM APPROVED ALTERNATES WILL CONFORM TO THE SAME BASIC SHAPE/STYLE, TECHNICAL AND AESTHETIC CHARACTERISTICS, PROVIDE EQUAL OR BETTER ILLUMINATION/UNIFORMITY, CONSUME EQUAL OR LESS POWER, AND BE ACCOMPANIED BY AN EQUAL OR BETTER MANUFACTURER WARRANTY THAN THE SPECIFIED PRODUCTS.
- B. MATERIALS:
- LUMINAIRES: PROVIDE AND INSTALL ALL LIGHTING EQUIPMENT OR APPROVED EQUAL AS SHOWN ON THE DRAWINGS AND DESCRIBED IN THE "FIXTURE SCHEDULE". PROVIDE LIGHTING EQUIPMENT COMPLETE, WIRED, ASSEMBLED, WITH PROPER FLANGES, MOUNTING SUPPORTS, HARDWARE, ETC.
  - LED DRIVERS: PROVIDE UL LISTED POWER SUPPLY AS RECOMMENDED BY THE LED FIXTURE MANUFACTURER FOR OPERATION OF THE SPECIFIED LED LAMPS. POWER SUPPLY SHALL BE INTEGRAL TO THE LUMINAIRE UNLESS OTHERWISE NOTED ON THE PLANS. POWER SUPPLY SHALL OPERATE AT THE SUPPLY VOLTAGE INDICATED ON THE PLANS AND SHALL BE LISTED FOR STARTING AND OPERATING THE LAMPS AT -40°F WHERE INSTALLED OUTDOORS.
  - LED LAMPS: UNLESS OTHERWISE SCHEDULED ON THE PLANS, PROVIDE NOMINAL 4000 K, WITH MINIMUM 75CRI AND A MINIMUM L70 LAMP LIFE OF 50,000 HOURS.
  - LIGHT POLES: POLES SHALL BE HOT-DIPPED GALVANIZED MEETING THE REQUIREMENTS OF MUNICIPALITY OF ANCHORAGE STANDARD SPECIFICATIONS (MASS) DETAIL 80-19, HEIGHT AS SHOWN ON THE FIXTURE SCHEDULE. MAST ARMS SHALL BE HOT-DIPPED GALVANIZED STEEL MEETING THE REQUIREMENTS OF MASS DETAIL 80-20, LENGTH AS SHOWN ON THE FIXTURE SCHEDULE. POLE BASES SHALL BE FIXED BASE PER MASS DETAIL 80-21. DRIVEN STEEL PILE FOUNDATIONS SHALL BE PER MASS DETAIL 80-13.
- C. INSTALLATION:
- LUMINAIRE POLES, MAST ARMS, AND BASES SHALL BE INSTALLED PER THE APPLICABLE PORTIONS OF THE MASS DIVISION 80, INCLUDING DETAILS 80-13, 80-19, 80-20, 80-21, AND 80-25.
  - PROVIDE LUMINAIRE DISCONNECTING MEANS IN DRIVER CHANNEL OF EACH LIGHT FIXTURE. WHERE THE LUMINAIRE IS FED FROM A MULTI-WIRE BRANCH CIRCUIT, PROVIDE MULTI-POLE DISCONNECT TO SIMULTANEOUSLY BREAK ALL SUPPLY CONDUCTORS TO THE BALLAST, INCLUDING THE GROUNDING CONDUCTOR.

REV	DATE	DESCRIPTION



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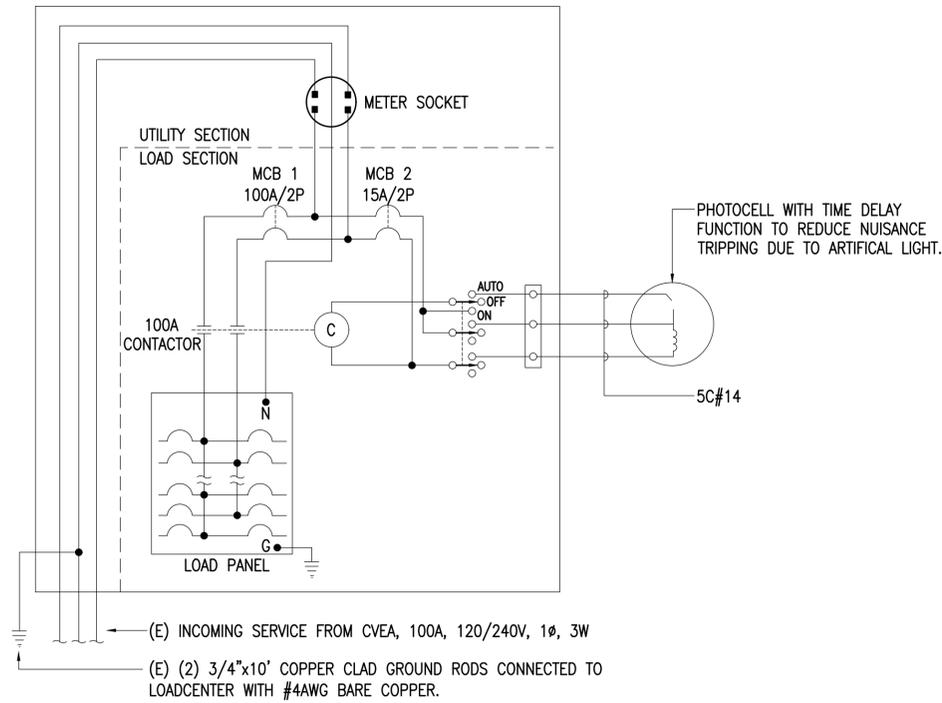
VALDEZ PAVEMENT REHABILITATION  
 PHASE IV - ROBE RIVER DRIVE - ALTERNATE 4  
**ELECTRICAL SPECIFICATIONS**

RSA PROJECT M2078  
 DATE 01/16/2026

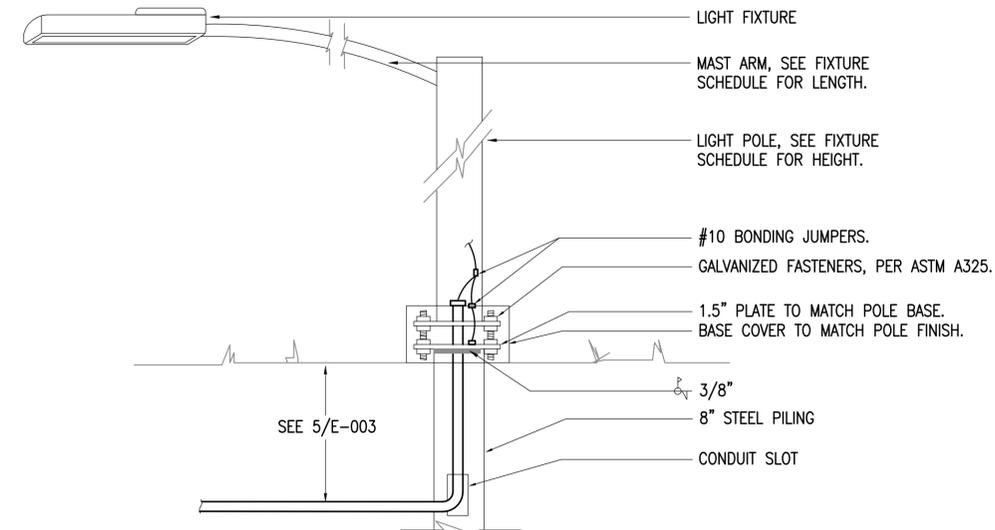
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E-002

VALDEZ, ALASKA



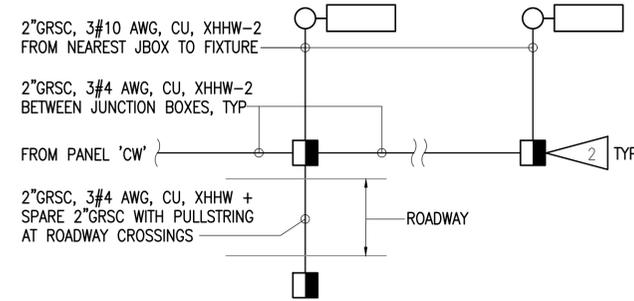
**1** EXISTING LOADCENTER TYPICAL WIRING DIAGRAM  
NO SCALE



**DETAIL NOTES FOR LIGHT POLE BASES:**

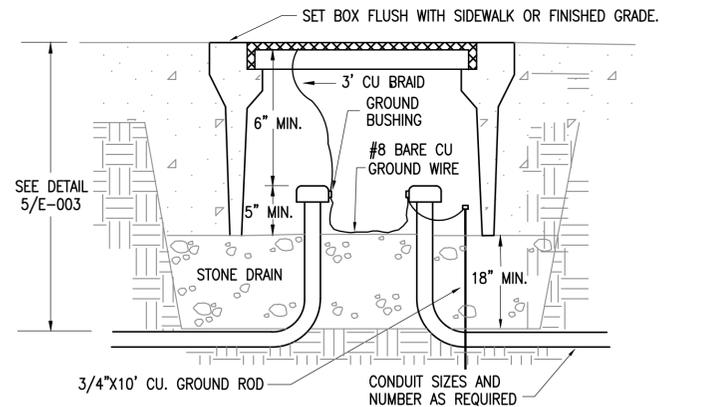
- REFERENCE SPECIFICATION SECTION 26 50 00 FOR LIGHT POLE, MAST ARM, AND DRIVEN PILE REQUIREMENTS.

**2** TYPICAL LIGHT POLE BASE DETAIL  
NTS



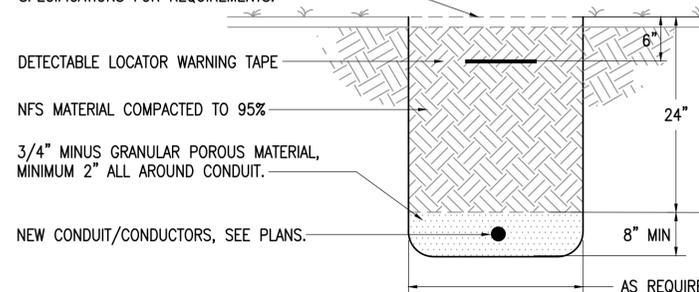
ADDITIVE ALTERNATE #3: SCHEDULE 40 HDPE MAY BE UTILIZED IN PLACE OF GRSC FOR UNDERGROUND APPLICATIONS ONLY.

**3** STREET LIGHTING SCHEMATIC  
NO SCALE



**4** EXTERIOR TYPE 1A JUNCTION BOX  
NO SCALE

NEW SOD/CONCRETE/ASPHALT TO MATCH EXISTING. REFERENCE THE CITY OF VALDEZ STANDARD SPECIFICATIONS FOR REQUIREMENTS.



**5** TYPICAL TRENCHING DETAIL  
NO SCALE

**SHEET NOTES:**

- PROVIDE A 36" LOOP WITHIN THE STREET LIGHTING CONDUCTORS AT EACH JUNCTION BOX TO PROVIDE SLACK FOR FUTURE MAINTENANCE PURPOSES.

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VALDEZ PAVEMENT REHABILITATION  
PHASE IV - ROBE RIVER DRIVE - ALTERNATE 4  
**ELECTRICAL DETAILS**  
VALDEZ, ALASKA

RSA PROJECT M2078  
DATE 01/16/2026

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**E-003**

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**GENERAL NOTES:**

- A. THE INFORMATION SHOWN ON THIS DRAWING IS TAKEN FROM AS-BUILT DRAWINGS AND A NON-DESTRUCTIVE WALK THROUGH OF THE FACILITY. THERE IS NO WARRANTY OR GUARANTEE AS TO THE ACCURACY OF THE INFORMATION SHOWN HERE-IN. THE CONTRACTOR SHALL FIELD VERIFY ALL ITEMS SCHEDULED FOR DEMOLITION PRIOR TO START OF WORK.
- B. THE OWNER SHALL HAVE FIRST RIGHT OF REFUSAL ON ALL SALVAGEABLE MATERIALS. THE CONTRACTOR SHALL DELIVER SALVAGED MATERIALS TO A WAREHOUSE AS DIRECTED BY THE OWNER. THE CONTRACTOR SHALL DISPOSE OF, OFF SITE, ALL UNWANTED MATERIALS.
- C. DASHED LINES INDICATE ITEMS TO BE REMOVED. SOLID LINES INDICATE EXISTING ITEMS TO REMAIN.
- D. CONTRACTOR IS RESPONSIBLE FOR PROVIDING UTILITY LOCATES WITHIN THE VICINITY OF THEIR EXCAVATION. ANY DAMAGE TO EXISTING UTILITIES SHALL BE REPAIRED BY THE CONTRACTOR AT NO COST TO THE OWNER.
- E. REFERENCE THE CITY OF VALDEZ STANDARD SPECIFICATIONS FOR ALL REQUIREMENTS RELATED TO TRENCHING, EXCAVATION, BACKFILL, CONCRETE, ASPHALT, AND GRASS/SOD PRIOR TO BEGINNING WORK.
- F. UNLESS OTHERWISE NOTED DEMOLISH LIGHT FIXTURES, POLES, BASES/PILES, AND ALL ASSOCIATED EXPOSED CONDUIT AND WIRE AS SHOWN. DEMOLISH UNDERGROUND WIRING WITHIN CONDUIT TO SOURCE. DEMOLISH UNDERGROUND CONDUIT AND/OR DIRECT BURIED CABLE TO EXTENT NECESSARY AS REQUIRED TO ACCOMMODATE NEW CONSTRUCTION.
- G. UNLESS OTHERWISE NOTED DEMOLISH LIGHT POLES AND BASES/PILES COMPLETE, AND BACKFILL AND COMPACT ALL HOLES.
- H. UTILITY TRANSFORMERS POWERING THE EXISTING STREET LIGHTING ARE NOT SHOWN ON THESE SHEETS. ALL UTILITY TRANSFORMERS SHALL REMAIN. DEMOLISH STREET LIGHTING CONDUIT AND CONDUCTORS AS SHOWN/NOTED.
- D. REFERENCE THE DETAILS ON SHEET E-003 FOR ADDITIONAL LIGHTING AND LIGHTING CONDUIT/WIRING REQUIREMENTS.
- E. LOCATIONS OF NEW LIGHT POLES SHOWN ON E-001 SCHEDULE. LOCATIONS OF JUNCTION BOXES, AND UNDERGROUND CONDUIT ROUTING IS APPROXIMATE ONLY. ADJUST LOCATIONS IN THE FIELD TO AVOID EXISTING UNDERGROUND UTILITIES.
- F. ADDITIVE ALTERNATE #6 - ALL UNDERGROUND FIBER OPTIC LINES SHOWN (UG/FO) SHALL BE (2) RUNS OF 2" HDPE CONDUIT. ONLY A SINGLE LINE IS SHOWN FOR CLARITY, BUT (2) SHALL BE PROVIDED. ROUTE CONDUIT IN COMMON TRENCH WITH THE NEW LIGHTING CONDUIT TO FURTHEST EXTENT PRACTICAL. COORDINATE THE FINAL LOCATION OF ALL HANDHOLES AND VAULTS WITH THE COV PRIOR TO EXCAVATION.



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**1 ELECTRICAL SITE PLAN AND OVERALL MAP**  
1"=200'

REV	DATE	DESCRIPTION



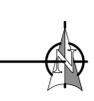
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VALDEZ PAVEMENT REHABILITATION  
PHASE IV - ROBE RIVER DRIVE - ALTERNATE 4  
**ELECTRICAL SITE PLAN  
AND OVERALL MAP**  
VALDEZ, ALASKA

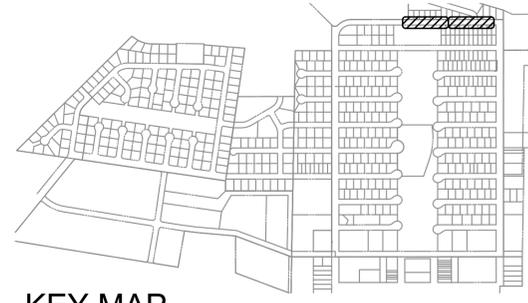
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**KEY MAP**

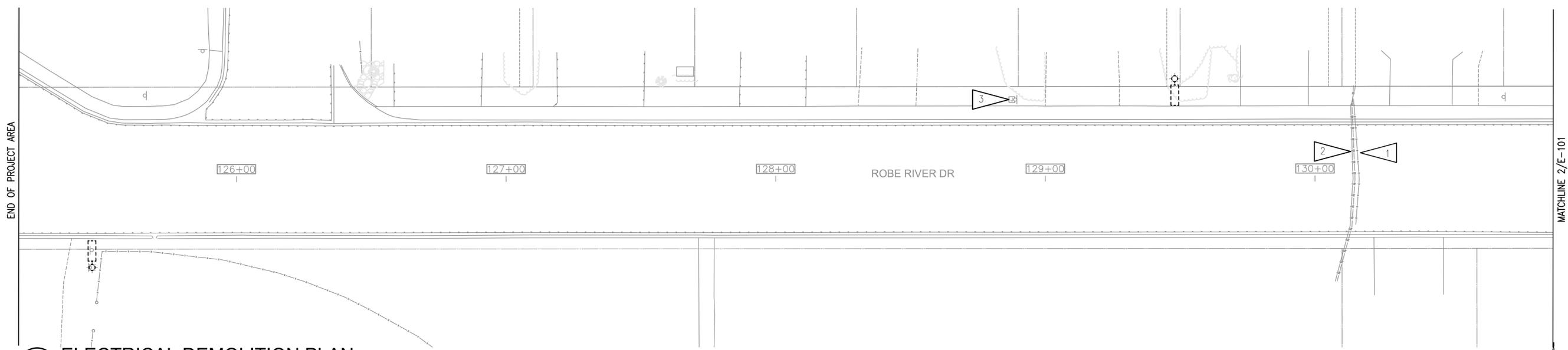
1"=1000'

**GENERAL NOTES:**

A. SEE SHEET E-004 FOR GENERAL NOTES.

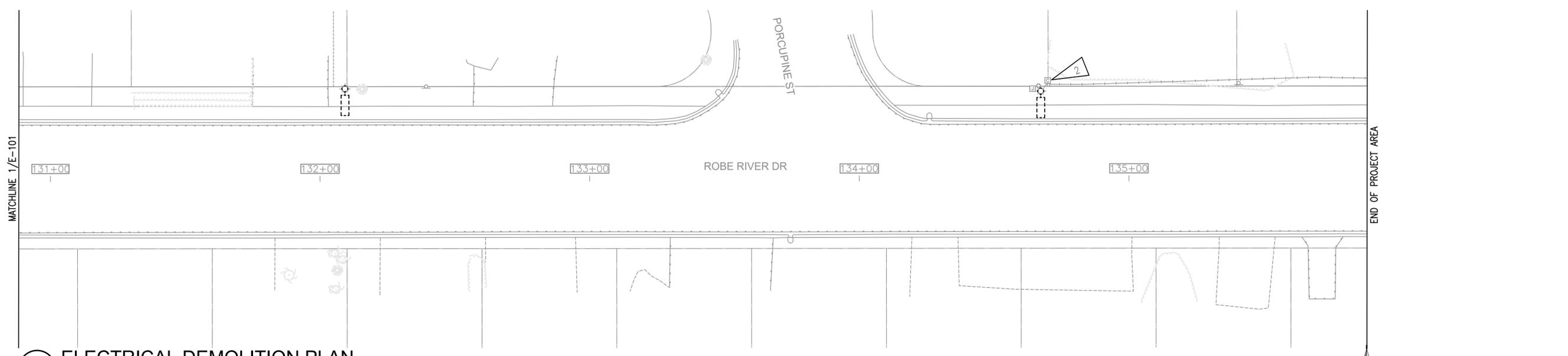
**SHEET NOTES:**

1. PROTECT EXISTING ELECTRIC UTILITY DURING CONSTRUCTION.
2. PROTECT EXISTING FIBER OPTICS AND COMMUNICATIONS CABLING DURING CONSTRUCTION.
3. PROTECT EXISTING FLASHING SCHOOL SIGN AND ASSOCIATED JUNCTION BOX, CONDUIT, AND WIRING DURING CONSTRUCTION.



**1 ELECTRICAL DEMOLITION PLAN**

1"=20'



**2 ELECTRICAL DEMOLITION PLAN**

1"=20'

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 Phone (907) 276-0521  
 Corporate No.: AEC042

VALDEZ PAVEMENT REHABILITATION  
PHASE IV - ROBE RIVER DRIVE - ALTERNATE 4  
**ELECTRICAL DEMOLITION PLANS**

RSA PROJECT M2078  
DATE 01/16/2026

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G:\2022\M2078\M2078-EZSERIES-PHV-ROBE.dwg PLOT DATE 2026-1-16 16:30 SAVED DATE 2026-01-16 16:22 USER: nic villa-tuerte



**KEY MAP**

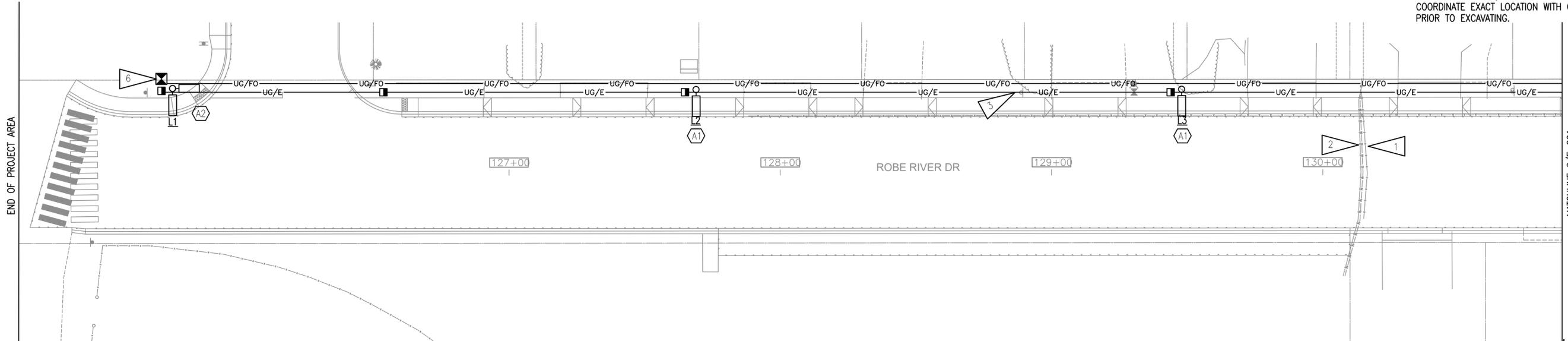
1"=1000'

**GENERAL NOTES:**

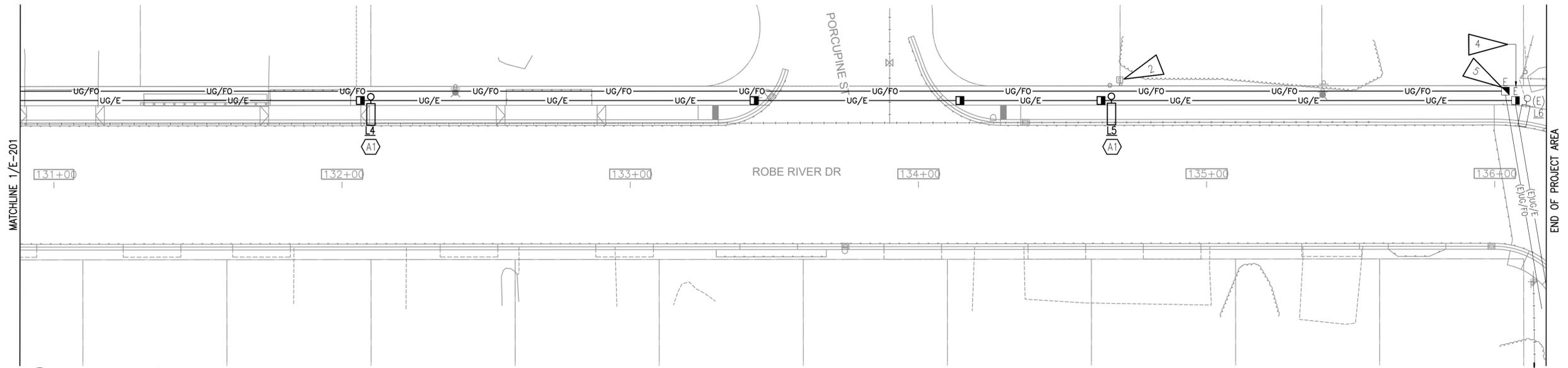
A. SEE SHEET E-004 FOR GENERAL NOTES.

**SHEET NOTES:**

1. PROTECT EXISTING ELECTRIC UTILITY DURING CONSTRUCTION.
2. PROTECT EXISTING FIBER OPTICS AND COMMUNICATIONS CABLING DURING CONSTRUCTION.
3. PROTECT EXISTING FLASHING SCHOOL SIGN AND ASSOCIATED JUNCTION BOX, CONDUIT, AND WIRING DURING CONSTRUCTION.
4. EXTEND NEW CONDUIT/WIRING FROM EXISTING JUNCTION BOX INSTALLED UNDER THE PHASE IV MEALS PROJECT.
5. EXTEND NEW FIBER OPTIC CONDUITS FROM EXISTING FIBER OPTIC HANDHOLE.
6. FIBER OPTIC VAULT, SEE CIVIL FOR DETAILS. COORDINATE EXACT LOCATION WITH COV PRIOR TO EXCAVATING.



**1 ELECTRICAL PLAN**  
1"=20'



**2 ELECTRICAL PLAN**  
1"=20'

REV	DATE	DESCRIPTION	BY



**RSA Engineering, Inc.**  
MECHANICAL AND ELECTRICAL CONSULTING ENGINEERS  
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Anchorage, AK 99503  
Phone (907) 276-0521  
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VALDEZ PAVEMENT REHABILITATION  
PHASE IV - ROBE RIVER DRIVE - ALTERNATE 4

**ELECTRICAL PLANS**

VALDEZ, ALASKA

RSA PROJECT M2078  
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