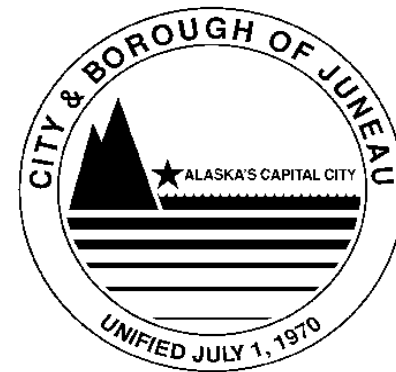


DOWNTOWN STREET IMPROVEMENTS – PHASE I

VOLUME II of II

Contract No. BE17-137

File No. 1872

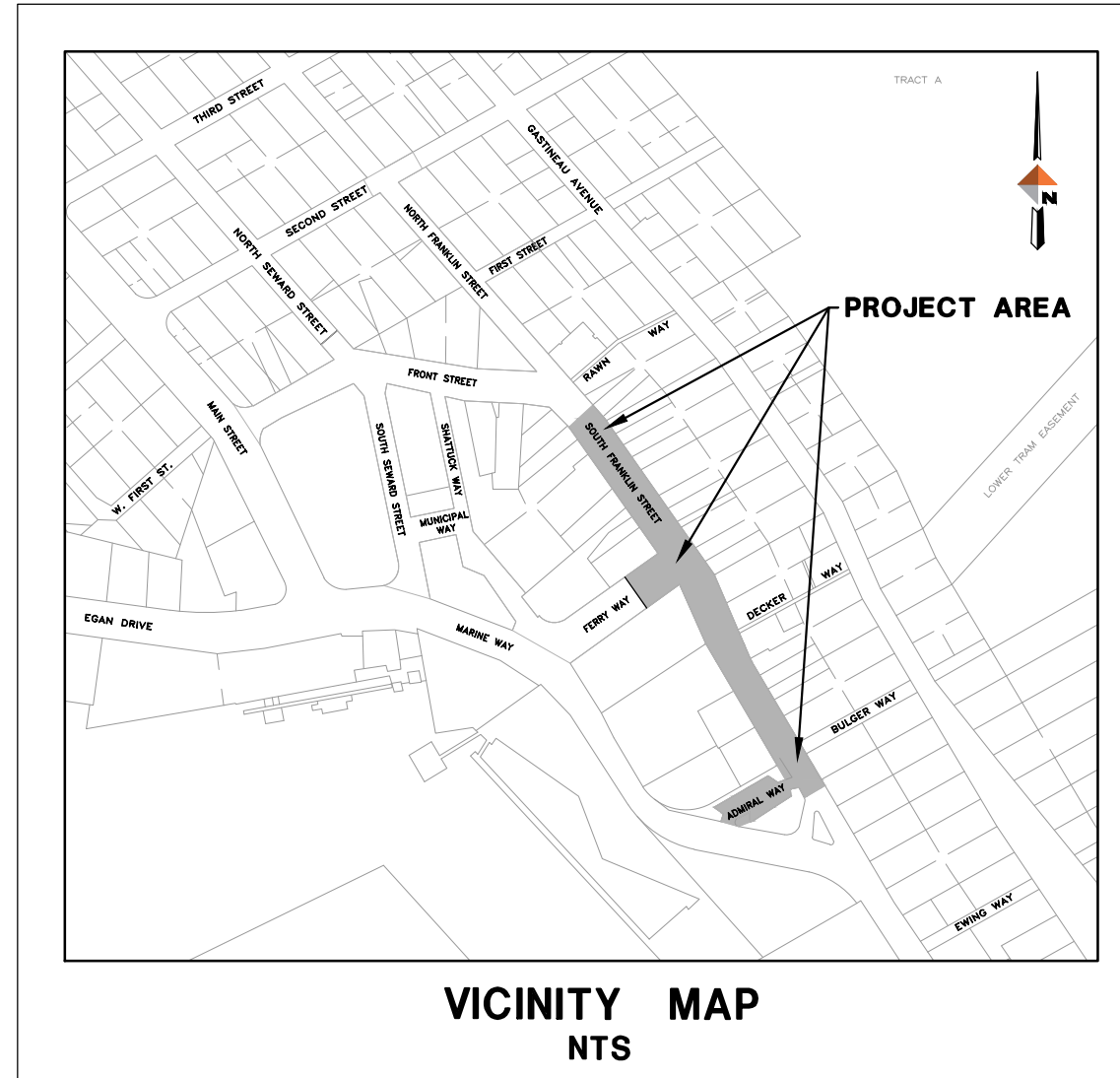


ENGINEERING DEPARTMENT

CIVIL INDEX

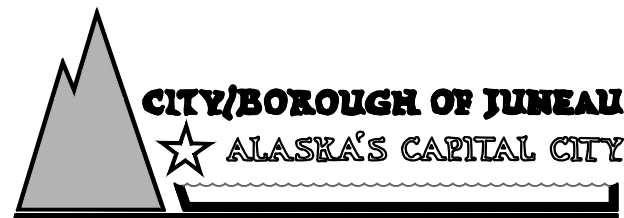
DESCRIPTION	SHEET NO.
COVER SHEET	G.101, 1 OF 39
LEGEND, ABBREVIATIONS, AND GENERAL NOTES	G.102, 2 OF 39
TRAFFIC CONTROL AND PHASING REQUIREMENTS	G.103, 3 OF 39
TYPICAL SECTIONS	C.101, 4 OF 39
PLANTER DETAILS	C.102, 5 OF 39
CONCRETE DETAILS	C.103, 6 OF 39
CORROSION PROTECTION DETAILS	C.104, 7 OF 39
TEMPORARY PEDESTRIAN WALKWAY DETAIL	C.105, 8 OF 39
PAINTED TRAFFIC MARKINGS AND SIGN LAYOUT BOP TO STA "S" 12+50	C.106, 9 OF 39
PAINTED TRAFFIC MARKINGS AND SIGN LAYOUT STA "S" 12+50 TO STA "S" 15+00	C.107, 10 OF 39
PAINTED TRAFFIC MARKINGS AND SIGN LAYOUT STA "S" 15+00 TO "S" 17+50	C.108, 11 OF 39
PAINTED TRAFFIC MARKINGS AND SIGN LAYOUT STA "S" 17+50 TO EOP	C.109, 12 OF 39
HORIZONTAL AND VERTICAL CONTROL CURB AND GUTTER LAYOUT AND GRADES BOP TO STA "S" 12+50	C.201, 13 OF 39
HORIZONTAL AND VERTICAL CONTROL CURB AND GUTTER LAYOUT AND GRADES STA "S" 12+50 TO STA "S" 15+00	C.202, 14 OF 39
HORIZONTAL AND VERTICAL CONTROL CURB AND GUTTER LAYOUT AND GRADES STA "S" 15+00 TO STA "S" 17+50	C.203, 15 OF 39
HORIZONTAL AND VERTICAL CONTROL CURB AND GUTTER LAYOUT AND GRADES STA "S" 17+50 TO EOP	C.204, 16 OF 39
PLAN - S. FRANKLIN STREET BOP TO STA "S" 12+50	C.301, 17 OF 39
PLAN - S. FRANKLIN STREET STA "S" 12+50 TO STA "S" 15+00	C.302, 18 OF 39
PLAN - S. FRANKLIN STREET STA "S" 15+00 TO "S" 17+50	C.303, 19 OF 39
PLAN - S. FRANKLIN STREET STA "S" 17+50 TO EOP	C.304, 20 OF 39
PROFILE - S. FRANKLIN STREET BOP TO STA "S" 16+00	C.401, 21 OF 39
PROFILE - S. FRANKLIN STREET STA "S" 16+00 TO EOP	C.402, 22 OF 39

DOWNTOWN STREET IMPROVEMENTS - PHASE I CONTRACT NO. BE17-137



ELECTRICAL INDEX

DESCRIPTION	SHEET NO.
LEGEND, LUMINAIRE SCHEDULE, SINGLE LINE DIAGRAM & DETAILS	E.001, 23 OF 39
ELECTRICAL AND LIGHTING DEMOLITION PLAN - S.FRANKLIN STREET BOP TO STA "S" 12+50	E.101, 24 OF 39
ELECTRICAL AND LIGHTING DEMOLITION PLAN - S.FRANKLIN STREET STA "S" 12+50 TO STA "S" 15+00	E.102, 25 OF 39
ELECTRICAL AND LIGHTING DEMOLITION PLAN - S.FRANKLIN STREET STA "S" 15+00 TO STA "S" 17+50	E.103, 26 OF 39
ELECTRICAL AND LIGHTING DEMOLITION PLAN - S.FRANKLIN STREET STA "S" 17+50 TO EOP	E.104, 27 OF 39
NEW ELECTRICAL AND LIGHTING PLAN - S.FRANKLIN STREET BOP TO STA "S" 12+50	E.201, 28 OF 39
NEW ELECTRICAL AND LIGHTING PLAN - S.FRANKLIN STREET STA "S" 12+50 TO STA "S" 15+00	E.202, 29 OF 39
NEW ELECTRICAL AND LIGHTING PLAN - S.FRANKLIN STREET STA "S" 15+00 TO STA "S" 17+50	E.203, 30 OF 39
NEW ELECTRICAL AND LIGHTING PLAN - S.FRANKLIN STREET STA "S" 17+50 TO EOP	E.204, 31 OF 39
ENLARGED CANOPY LIGHTING PLANS	E.301, 32 OF 39
ENLARGED CANOPY LIGHTING PLANS	E.302, 33 OF 39
ENLARGED CANOPY LIGHTING PLANS	E.303, 34 OF 39
ENLARGED CANOPY LIGHTING PLANS	E.304, 35 OF 39
CANOPY LIGHTING DETAILS	E.401, 36 OF 39
CANOPY LIGHTING DETAILS	E.402, 37 OF 39
CANOPY LIGHTING DETAILS	E.403, 38 OF 39
DETAILS	E.404, 39 OF 39



5368 COMMERCIAL BOULEVARD
JUNEAU, ALASKA 99801
907-780-3533
AECL848

LEGEND

DESCRIPTION	EXISTING	REMOVE	PROPOSED
ADA TILE			
BURIED ELECTRICAL UTILITIES			
CATCH BASIN			
CANOPY MOUNTED LUMINAIRE			
CONTROL POINT			
CONCRETE ENCASED UTILITIES			
CURB & GUTTER			
CUT LIMITS			
FIRE HYDRANT			
HOUSE NO.			
POLE MOUNTED LUMINAIRE			
PROJECT CONTROL LINE			
PROPERTY LINE			
SANITARY SEWER PIPE			
SANITARY SEWER MANHOLE			
SIGN			
STORM DRAIN PIPE			
STORM DRAIN MANHOLE			
SURVEY MONUMENT-REBAR W/ PLASTIC CAP			
TRASH CAN			
TREE DECIDUOUS			
UTILIDOR			
WATER LINE PIPE			
WATER VALVE BOX			

ABBREVIATIONS

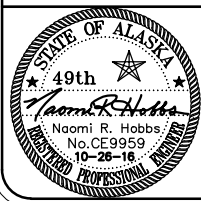
AC	ASPHALT PAVING
BVC	BEGIN VERTICAL CURVE
CB	CATCH BASIN
CMP	CORRUGATED METAL PIPE
CPP	CORRUGATED POLYETHYLENE PIPE
CONC	CONCRETE
CTE	CONNECT TO EXISTING
DI	DUCTILE IRON
DIA	DIAMETER
EVC	END VERTICAL CURVE
FG	FINISHED GRADE
GV	GATE VALVE
HDPE	HIGH DENSITY POLYETHYLENE
INV	INVERT
LG	LIP OF GUTTER
LP	LOW POINT
LT	LEFT
MH	MANHOLE
MN	MAGNETIC NAIL
MTE	MATCH TO EXISTING
NO	NUMBER
NTS	NOT TO SCALE
PC	POINT OF CURVATURE
PCC	POINT OF COMPOUND CURVATURE
PRC	POINT OF REVERSE CURVATURE
PSI	POUNDS PER SQUARE INCH
PT	POINT OF TANGENT
PVC	POLYVINYL CHLORIDE PIPE
PVI	POINT OF VERTICAL INTERSECTION
RT	RIGHT
STA	STATION
STD	STANDARD
TBC	TOP BACK OF CURB
TBG	TOP BACK OF GUTTER
TP	TOP OF PAVEMENT
TSW	TOP OF SIDEWALK
TYP	TYPICAL

ABBREVIATIONS TO BE USED WITHOUT PERIODS

GENERAL NOTES

- BEGIN SUBCUT AT 24 INCHES FROM PAVEMENT SAWCUT LINE AT STREET CONNECTIONS, UNLESS OTHERWISE SHOWN ON THE DRAWINGS, OR DIRECTED BY THE ENGINEER. REMOVE AND REPLACE BASE COURSE WITH 6 INCHES OF 2" MINUS SHOT ROCK/BASE COURSE TO 12 INCHES FROM PAVEMENT SAWCUT LINE. SAWCUT AS NECESSARY ALONG ALL STREET AND DRIVEWAY APPROACHES TO PROVIDE A NEAT MATCH LINE.
- CONTRACTOR SHALL ENSURE GARBAGE PICKUP, PRIVATE AND BUSINESS DELIVERIES, AND DAILY MAIL SERVICE WILL BE UNINTERRUPTED TO ALL BUILDINGS AFFECTED BY THIS PROJECT.
- CBJ ENGINEERING STANDARD DETAILS 4TH EDITION - AUGUST 2011, IS MADE PART OF THIS CONTRACT, WITH CURRENT REVISIONS AS APPLICABLE.
- ALL EXISTING WATER PIPES (6 INCH DIAMETER AND LARGER), AND APPURTENANCES (TO BE ABANDONED) THAT ARE WITHIN THE STREET AND SIDEWALK LIMITS, SHALL BE REMOVED AND DISPOSED OF, OR FILLED WITH FLOWABLE CONCRETE MIXTURE, UNLESS OTHERWISE NOTED.
- EXISTING PIPE LOCATIONS ARE DERIVED FROM CBJ AS-BUILTS OR FIELD LOCATED. ACTUAL LOCATIONS MAY VARY FROM THOSE SHOWN. DEPTH OF SOME OF THE EXISTING PIPES SHOWN ON THE ELEVATIONS ARE ASSUMED. THE CONTRACTOR SHALL ARRANGE FOR ELECTRICAL UTILITY LOCATES PRIOR TO ANY EXCAVATION. UNDERGROUND ELECTRICAL UTILITIES, IF SHOWN ON THE DRAWINGS, INDICATE THEIR EXISTENCE ONLY, AND MAY NOT DEPICT THE ACTUAL LOCATION. OTHER BURIED ELECTRICAL UTILITIES MAY EXIST THAT ARE NOT SHOWN ON THE DRAWINGS. DIAL BEFORE YOU DIG AT 586-1333.
- GRADING AND ALIGNMENT ARE SUBJECT TO MINOR REVISIONS BY THE ENGINEER. LOCATION OF PROPOSED WATER AND STORM DRAINAGE FACILITIES ARE SUBJECT TO MINOR REVISIONS BY THE ENGINEER. PROVIDE KNOCKOUTS IN CATCH BASINS FOR ALL PIPES SHOWN ON THE PLANS.
- THE CONTRACTOR SHALL NOTIFY CBJ WATER UTILITIES (STEVE LOCKS AT 321-2969) OF PROPOSED WATER SERVICE INTERRUPTION AND SUBMIT THE "WATER SYSTEM SPECIAL USE PERMIT" TO CBJ WATER UTILITIES SUPERINTENDENT FOR APPROVAL AT LEAST 48 HOURS PRIOR TO SHUTDOWN OR FLUSHING OF MAINLINE WATER PIPE. NO WATER SERVICE INTERRUPTION MAY PROCEED UNTIL THIS APPROVAL IS OBTAINED.
- PROPERTY LINE LOCATIONS USED IN THESE PLANS ARE DERIVED FROM RECORD PLATS AND DO NOT REPRESENT BOUNDARY SURVEY. EXISTING RECORD PLATS DO NOT CLOSE WITH EACH OTHER IN SOME CASES. THE PROPERTY LINES SHOWN ON THESE PLANS ARE A BEST FIT APPROXIMATION OF CLOSURE.
- CONTRACTOR SHALL VERIFY LOCATION AND DEPTH OF EXISTING WATER AND SEWER PIPES, INCLUDING ALL SERVICES ALONG THE STORM DRAIN AND WATER PIPE ALIGNMENTS, TO DETERMINE PIPE INSULATION LOCATIONS, AND TO ENSURE DAMAGE DOES NOT OCCUR TO THE SERVICE PIPES.
- ALL ITEMS DESIGNATED TO BE REMOVED SHALL BE DISPOSED OF OFF-SITE, EXCEPT AS NOTED IN THE CONTRACT DOCUMENTS.
- CONTRACTOR SHALL REFERENCE ALL EXISTING PROPERTY CORNER MONUMENTS (I.E. BRASS CAP MONUMENTS, REBARS, CONCRETE NAILS, CHISELED X'S) PRIOR TO CONSTRUCTION AND REMONUMENT AFTER SURFACING IS REPLACED. EXISTING SURVEY MONUMENTS MAY NOT BE SHOWN ON THE DRAWINGS. ALL WORK SHALL BE DONE BY, OR UNDER THE DIRECTION OF, AN ALASKA REGISTERED LAND SURVEYOR.
- ALL ASPHALT PAVEMENT TO BE REMOVED AND DISPOSED OF SHALL BE DELIVERED TO A STOCKPILE AREA AT THE LEMON CREEK CITY PIT TO BE DESIGNATED BY THE ENGINEER. CONTACT THE ENGINEER FOR THE EXACT LOCATION OF THE STOCKPILE.
- AEL&P, ACS, AT&T, AND GCI MAY CONDUCT WORK WITHIN THE PROJECT LIMITS TO RELOCATE UTILITIES AND UPGRADE THEIR RESPECTIVE SYSTEMS. THE CONTRACTOR SHALL COORDINATE ITS ACTIVITIES WITH EACH UTILITY COMPANY AND PROVIDE ACCESS AS NECESSARY FOR UTILITY COMPANIES TO CONDUCT THEIR WORK.
- ONLY HORIZONTAL ELBOW FITTINGS (BENDS) ARE SHOWN (NOT ALL ARE LABELED) ON DRAWINGS. ADDITIONAL FITTINGS WILL BE REQUIRED FOR VERTICAL DEFLECTIONS NEAR CONNECTIONS TO EXISTING PIPES, AND AT OTHER LOCATIONS REQUIRING GRADE CHANGES TO AVOID CONFLICTS.
- THE CONTRACTOR SHALL RESTRICT ITS COMPACTION AND OTHER VIBRATION INDUCING OPERATIONS AS NECESSARY TO ASSURE NO DAMAGE OCCURS TO ADJACENT BUILDINGS OR STRUCTURES. REFER TO SECTION 01530, ARTICLE 1.7 OF THE STANDARD SPECIFICATIONS FOR FURTHER REQUIREMENTS.
- THE PLAN DRAWINGS DO NOT SHOW PLANTINGS, AND OTHER LANDSCAPING THAT WILL BE ENCOUNTERED DURING CONSTRUCTION ACTIVITIES. NO PLANTINGS OR LANDSCAPING ARE TO BE REMOVED OR DAMAGED, UNLESS SHOWN ON THE DRAWINGS OR 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 THE WRITTEN APPROVAL OF THE PROPERTY OWNER.
- THE USE OF GROUT AND QUICKSET CEMENT PRODUCTS WITH ADJUSTING RINGS, BRICKS, WOOD, STONES AND OTHER SIMILAR GRADE ADJUSTMENT DEVICES TO SUPPORT CATCH BASIN FRAMES OVER CATCH BASINS AND MANHOLES WILL NOT BE PERMITTED. SEE THE STANDARD DETAILS AND SECTION 02502 - STORM SEWER MANHOLES, INLETS AND CATCH BASINS FOR CATCH BASIN SUPPORT REQUIREMENTS. CATCH BASIN FRAME AND GRATES SHALL BE SET AT 6-3/4" BELOW TOP BACK OF CURB ELEVATION, WITH 3' LONG CONCRETE GUTTER TRANSITIONS TO BOTH SIDES OF GRATE.
- TEMPORARY RAMPS SHALL BE PROVIDED AS DIRECTED BY THE ENGINEER FOR BUSINESS AND RESIDENT ACCESS TO THEIR DOORWAYS DURING THE CONSTRUCTION PERIOD.
- THE CONTRACTOR SHALL NOTIFY EACH RESIDENT OF EACH DRIVEWAY CLOSURE THE DAY PRECEDING THE DAY THE DRIVEWAY IS TO BE CLOSED TO VEHICULAR ACCESS. THE RESIDENT SHALL BE INFORMED OF THE PERIOD OF TIME THE CLOSURE WILL BE IN EFFECT. NO DRIVEWAY CLOSURES WILL BE PERMITTED UNTIL THIS REQUIREMENT HAS BEEN MET TO THE SATISFACTION OF THE ENGINEER.
- THE OWNERS OF No. 165, THE ALASKAN HOTEL AND BAR, PLAN TO WATERPROOF THE BUILDING FOUNDATION WALL DOWN TO BOTTOM OF FOOTING ALONG THE STREET. THIS WORK WILL PROCEED FOLLOWING THE CONTRACTOR'S REMOVAL OF STREET SURFACING AND EMBANKMENT DOWN TO BOTTOM OF SUBCUT LEVEL. THE CONTRACTOR SHALL PROVIDE THE BUILDING OWNER A MINIMUM OF SEVEN DAYS NOTICE PRIOR TO THE AREA BEING AVAILABLE FOR THE BUILDING OWNER TO PROCEED WITH IT'S FORCES TO CONDUCT THE WATER PROOFING OPERATIONS AND SHALL ALLOW SEVEN DAYS FOR THE COMPLETION OF THIS WORK.

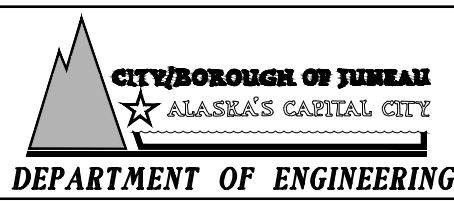
C:\Civil_3D\Projects\22\70878-01\Civil\SC14-CT-ID-70878.dwg 2016-10-26 14:36:40



DOWL
 Consulting Engineers • Land Surveyors • Construction Administration

5368 Commercial Blvd.
 Juneau, Alaska 99801
 (907) 780-3533 Office
 (907) 780-3535 Fax

JOB No. J70878 DRAWN BY: STAFF DESIGNED BY: T. LOCKHART CHECKED BY: N. HOBBS DATE: OCT. 2016



DOWNTOWN STREET IMPROVEMENTS - PHASE I
CONTRACT NO. BE17-137

LEGEND, ABBREVIATIONS, AND GENERAL NOTES

SHEET NO.
G.102
 2 of 39

PROJECT PHASING PLAN		
PHASE	COMPLETION DATE	REQUIREMENTS
I	APRIL 15, 2017	ALL WORK SOUTH OF FERRY WAY SHALL BE COMPLETE WITH THE EXCEPTION OF AC PAVEMENT, THE RAISED CONCRETE INTERSECTION, AND ABOVE GRADE FEATURES SUCH AS LIGHT POLES, SIGNS, TRASH CANS, BOLLARDS, ETC.
II	MAY 15, 2017	ALL WORK SOUTH OF FRONT STREET SHALL BE COMPLETE WITH THE EXCEPTION OF AC PAVEMENT, AND ABOVE GRADE FEATURES SUCH AS LIGHT POLES, SIGNS, TRASH CANS, BOLLARDS, ETC.
FINAL	MAY 31, 2017	ALL WORK SHALL BE COMPLETE.

ADDITIONAL PHASING REQUIREMENTS:

- A EXCEPT WHERE EXPLICITLY PERMITTED BY THE PHASING REQUIREMENTS THE CONTRACTOR SHALL NOT WORK IN MORE THAN ONE PHASE AT A TIME WITHOUT APPROVAL OF THE ENGINEER.
- B DURING PHASE I, UNDERGROUND UTILITY WORK WITHIN THE PHASE II LIMITS WILL BE PERMITTED PROVIDED AT LEAST ONE 5-FT WIDE SIDEWALK AND ONE 10-FT DRIVING LANE REMAIN OPEN. THE DEMOLITION AND PARKING STALLS TAKEN FOR THE WORK SHALL BE LIMITED TO ONLY THAT WHICH IS DIRECTLY RELATED TO THE UNDERGROUND UTILITY WORK.
- C PHASE II DEMOLITION ALONG ONE SIDE OF SOUTH FRANKLIN WILL BE PERMITTED ONCE THE CURB AND GUTTER FOR BOTH SIDES OF THE STREET, AND THE SIDEWALK FOR AT LEAST ONE SIDE OF THE STREET HAVE BEEN COMPLETED WITHIN PHASE I.
- D ASPHALT PAVING SHALL BE PERMITTED WITHIN BOTH PHASES ON THE SAME DAY.
- E DURING EACH PHASE OF CONSTRUCTION ONLY ONE SIDE OF THE STREET SHALL BE DEMOLISHED AT A TIME. THE CONTRACTOR MAY START WORK ON EITHER SIDE OF THE STREET, BUT SHALL NOT DEMOLISH THE SECOND SIDE UNTIL THE NEW SIDEWALK HAS BEEN COMPLETED ON THE FIRST SIDE.
- F CONTRACTOR SHALL PROVIDE ALL CONSTRUCTION SIGNAGE AS NECESSARY FOR IMPLEMENTATION OF TRAFFIC FLOW CHANGES.
- G ADMIRAL WAY WILL BE AVAILABLE AS A STAGING AREA UP UNTIL APRIL 15, 2017. THE STAGING AREA OPPOSITE FRONT STREET WILL BE AVAILABLE FOR THE DURATION OF THE PROJECT.
- H DURING BOTH PHASES AT LEAST ONE 30-FT LONG PARKING SPACE WITHIN 100-FT OF ALL BUSINESSES SHALL BE MAINTAINED FOR DELIVERY VEHICLES.

TRAFFIC CONTROL AND PEDESTRIAN ACCESS NOTES:

GENERAL NOTES:

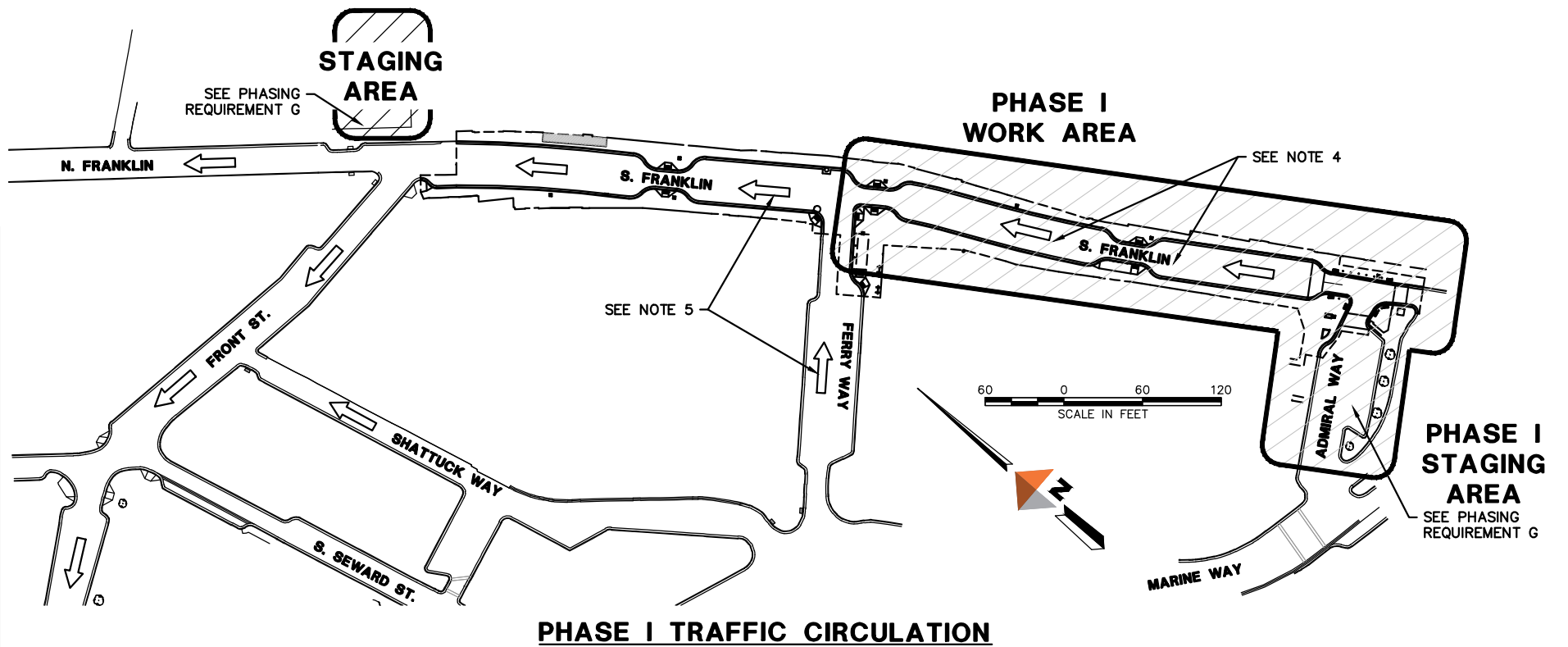
1. FOLLOWING CONCRETE SIDEWALK REMOVAL A 4-FT WIDE PEDESTRIAN RAMP SHALL BE INSTALLED AND MAINTAINED BETWEEN THE DOOR AND THE NEW CURBLINE FOR ALL BUSINESS ENTRANCES DURING BUSINESS HOURS UNLESS OTHERWISE COORDINATED WITH THE PROPERTY OWNER.
2. FOLLOWING CONCRETE SIDEWALK REMOVAL A 3-FT WIDE ACCESS OF BASE COURSE TO ALL NON-BUSINESS ENTRANCES/EXITS SHALL BE MAINTAINED UNTIL THE NEW SIDEWALK IS CONSTRUCTED. TEMPORARY ACCESS TO ENTRANCES/EXITS SHALL BE PROVIDED AS NEEDED DURING THE CONCRETE SIDEWALK POUR. COORDINATE TEMPORARY ACCESS WITH PROPERTY OWNER.
3. WHEN STREET CLOSURES ARE IN EFFECT, A 10-FT DRIVING LANE SHALL BE RE-ESTABLISHED AT THE END OF THE LAST WORK SHIFT OF EACH DAY. UNLESS NIGHT WORK IS PERMITTED IN ACCORDANCE WITH A CBJ STREET CLOSURE AND NOISE PERMIT, THE 10-FT DRIVING LANE SHALL BE OPEN BETWEEN THE HOURS OF 10PM AND 6AM.

DURING PHASE I WORK:

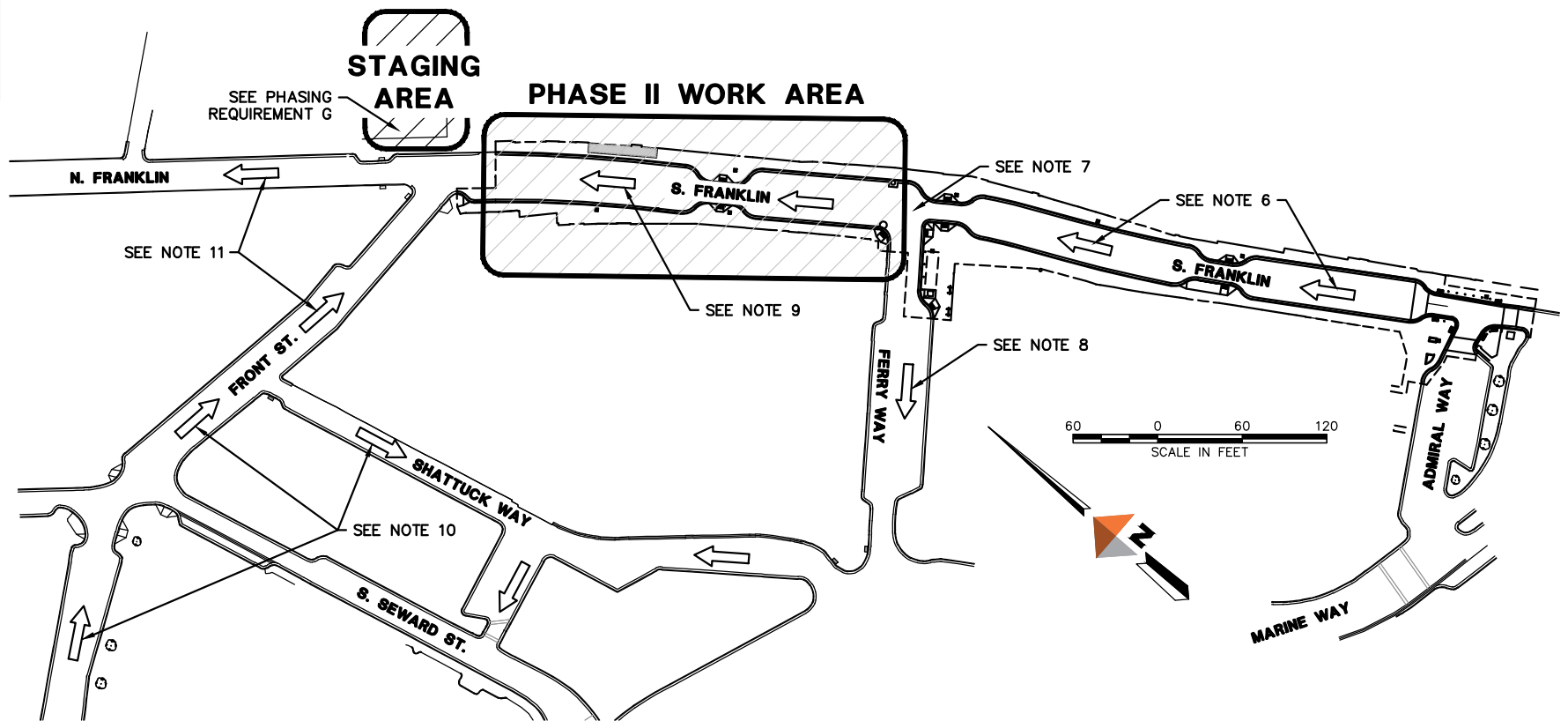
4. SOUTH FRANKLIN MAY BE CLOSED TO THROUGH TRAFFIC BETWEEN ADMIRAL WAY AND FERRY WAY, BUT THE SIDEWALK ON AT LEAST ONE SIDE OF THE STREET SHALL BE MAINTAINED AT ALL TIMES IN ACCORDANCE WITH THE PHASING REQUIREMENTS ABOVE.
5. THE TURNING MOVEMENT FOR A 30-FT BOX TRUCK FROM FERRY WAY TO SOUTH FRANKLIN SHALL BE MAINTAINED.

DURING PHASE II WORK:

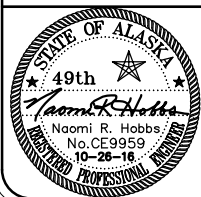
6. A 10-FT DRIVING LANE AND AT LEAST ONE PARKING LANE SHALL BE MAINTAINED FOR NORTHBOUND TRAFFIC ALONG SOUTH FRANKLIN BETWEEN ADMIRAL WAY AND FERRY WAY.
7. THE TURNING MOVEMENT FOR A 30-FT BOX TRUCK FROM SOUTH FRANKLIN TO FERRY WAY SHALL BE MAINTAINED.
8. TRAFFIC ON FERRY WAY SHALL BE REVERSED TO PROVIDE FOR WESTBOUND TRAFFIC.
9. SOUTH FRANKLIN MAY BE CLOSED TO THROUGH TRAFFIC BETWEEN FERRY WAY AND FRONT STREET, BUT THE SIDEWALK ON AT LEAST ONE SIDE OF THE STREET SHALL BE MAINTAINED AT ALL TIMES IN ACCORDANCE WITH THE PHASING REQUIREMENTS ABOVE.
10. THE DIRECTION OF TRAFFIC SHALL BE REVERSED ON FRONT STREET AND SHATTUCK WAY.
11. A 10' DRIVING LANE FOR A PASSENGER VEHICLE MUST BE MAINTAINED AT ALL TIMES FOR THE LEFTHAND TURN FROM FRONT STREET TO NORTH FRANKLIN STREET.



PHASE I TRAFFIC CIRCULATION



PHASE II TRAFFIC CIRCULATION



DOWL
 Consulting Engineers • Land Surveyors • Construction Administration
 5368 Commercial Blvd.
 Juneau, Alaska 99801
 (907) 780-3533 Office
 (907) 780-3535 Fax
 JOB No. J70878 DRAWN BY: STAFF DESIGNED BY: T. LOCKHART CHECKED BY: N. HOBBS DATE: OCT. 2016

CITY/BOROUGH OF JUNEAU
 ALASKA'S CAPITAL CITY
DEPARTMENT OF ENGINEERING

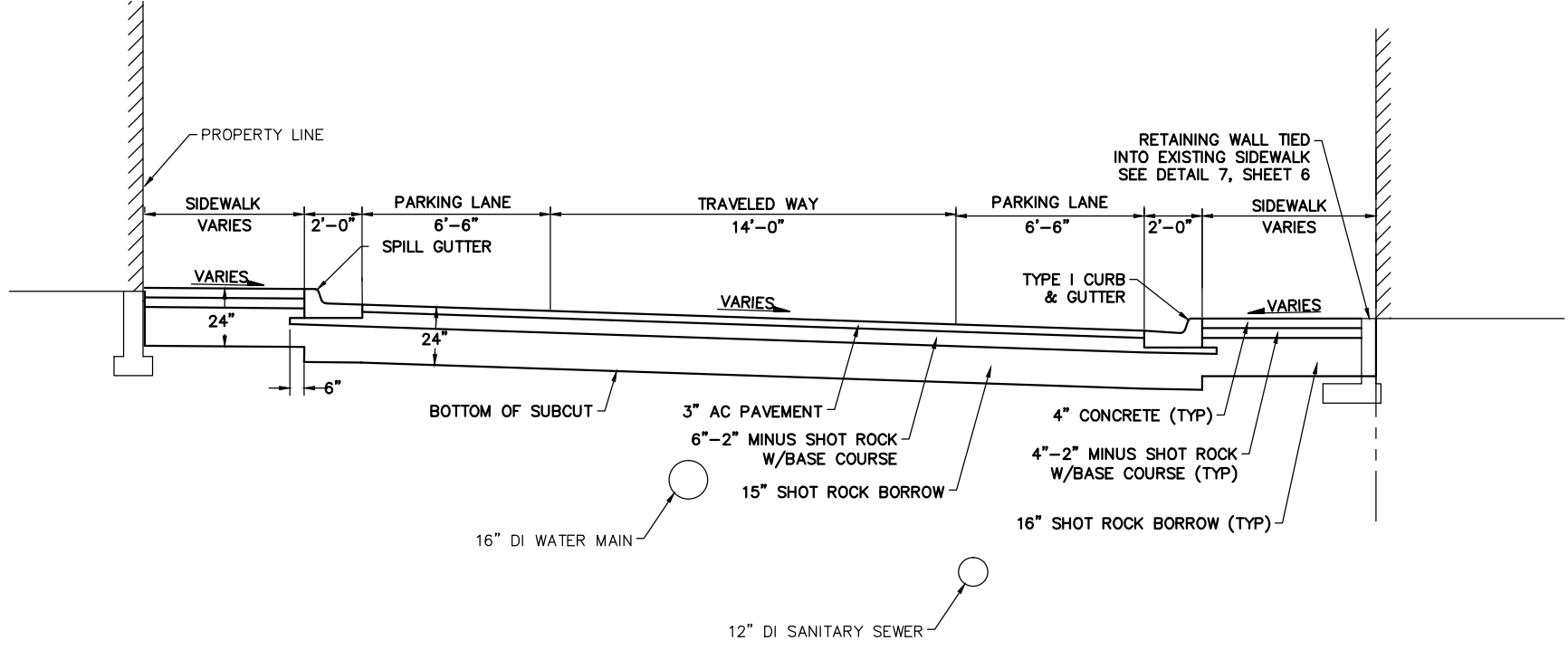
DOWNTOWN STREET IMPROVEMENTS - PHASE I
CONTRACT NO. BE17-137

TRAFFIC CONTROL AND PHASING REQUIREMENTS

C:\Civil_3D\Projects\22\70878-01\Civil\SC14-CT-TR-70878.dwg 2016-10-26 16:28:54

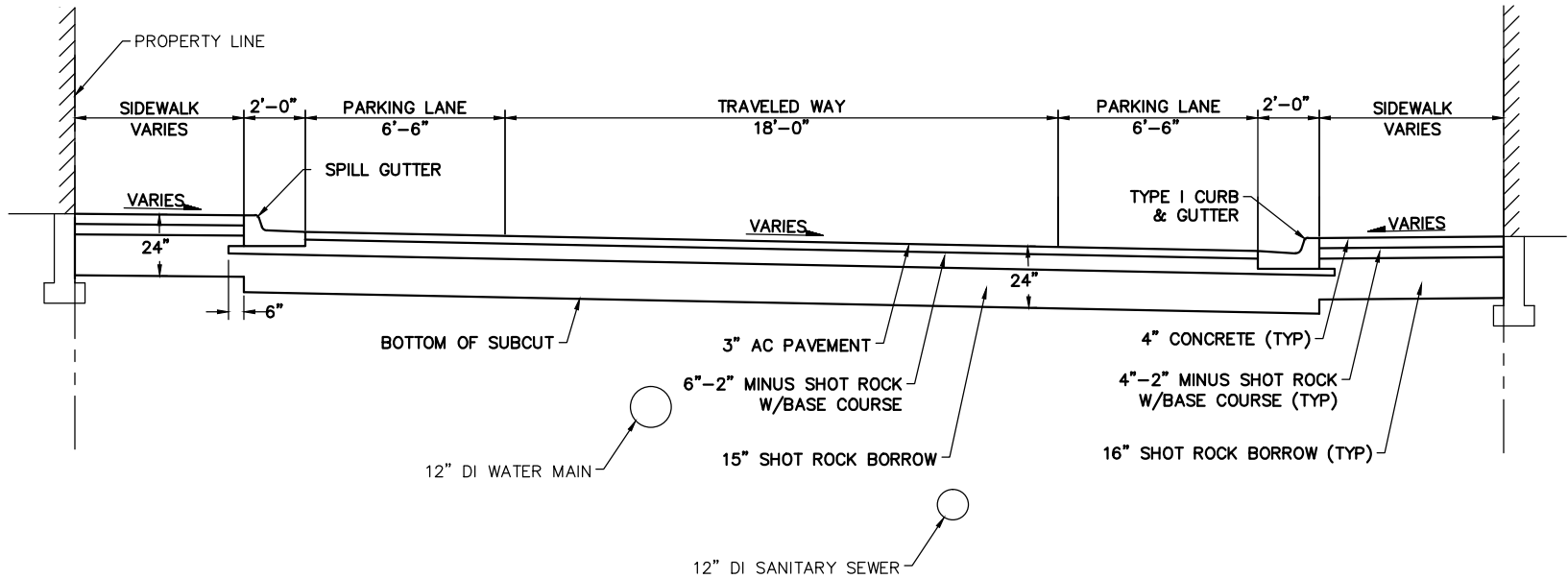
NOTES FOR TYPICAL SECTION

1. IF ORGANIC OR OTHER UNSUITABLE MATERIALS ARE FOUND AT OR NEAR THE PLANNED SUBCUT LEVEL ADDITIONAL EXCAVATION MAY BE REQUIRED AS DIRECTED BY THE ENGINEER, USABLE MATERIAL FROM EXCAVATION SHALL BE USED TO BACKFILL THE ADDITIONAL AREAS OF EXCAVATION, WHICH MAY VARY FROM 6" IN DEPTH TO A DEPTH OF UP TO 5'-0" BELOW FINISH GRADE. THE BACKFILLING WITH USABLE MATERIAL FROM EXCAVATION WILL BE CONSIDERED INCIDENTAL TO OTHER WORK.
2. SEE HORIZONTAL AND VERTICAL CONTROL, CURB AND GUTTER LAYOUT AND GRADE DRAWINGS FOR GRADING DETAILS.
3. UNDERGROUND ELECTRICAL AND WATER, SANITARY SEWER AND STORM SERVICES NOT SHOWN ON TYPICAL SECTION. SEE PLAN SHEETS FOR LOCATIONS.
4. TOP OF A.C PAVEMENT SHALL BE 1/4 INCH TO 1/2 INCH ABOVE THE LIP OF CONCRETE GUTTER, EXCEPT TOP OF AC PAVEMENT SHALL BE MAXIMUM 1/4 INCH ABOVE AND NO LOWER THAN FLUSH WITH LIP OF CONCRETE ALONG SPILL GUTTER. TOP OF PAVEMENT GRADES GIVEN ON THE PLANS ARE 1/4 INCH BELOW ACTUAL FINISH PAVEMENT SURFACE.
5. GRADE TOP OF CURB AT 2%
6. THE ROADWAY BASE COURSE LAYER SHALL BE 4" TO 5" OF 2-INCH MINUS SHOT ROCK WITH 1" TO 2" TOP LAYER OF BASE COURSE, GRADING D-1 FOR A TOTAL THICKNESS OF 6". THE 2-INCH MINUS SHOT ROCK SHALL BE WELL COMPACTED PRIOR TO PLACING THE BASE COURSE GRADING D-1.
7. THE SIDEWALK BASE COURSE LAYER SHALL BE 3" OF 2-INCH MINUS SHOT ROCK WITH 1" OF BASE COURSE, GRADING D-1. ALTERNATIVELY 4" OF BASE COURSE, GRADING D-1, MAY ALSO BE USED UNDER THE SIDEWALK.



**SOUTH FRANKLIN STREET TYPICAL SECTION
FERRY WAY TO ADMIRAL WAY**

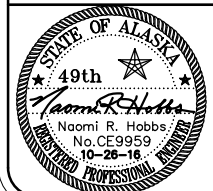
NTS



**SOUTH FRANKLIN STREET TYPICAL SECTION
FRONT STREET TO STA "S" 13+00**

NTS

C:\Civil_3D\Projects\22\70878-01\Civil\SC14-CT-TS-70878.dwg 2016-10-26 15:05:25



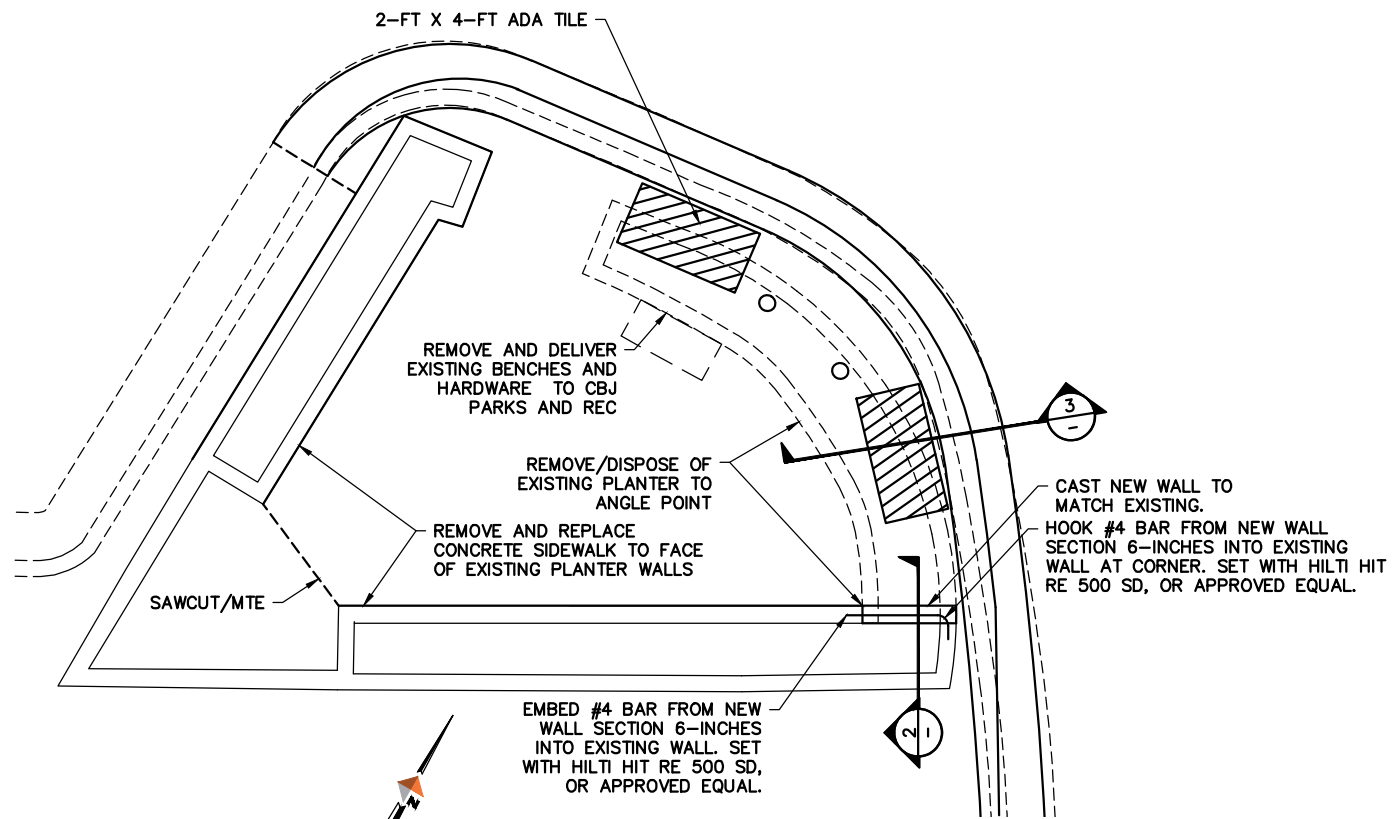
DOWL
 Consulting Engineers • Land Surveyors • Construction Administration
 5368 Commercial Blvd.
 Juneau, Alaska 99801
 (907) 780-3533 Office
 (907) 780-3535 Fax
 JOB No. J70878 DRAWN BY: STAFF DESIGNED BY: T. LOCKHART CHECKED BY: N. HOBBS DATE: OCT. 2016

CITY/BOROUGH OF JUNEAU
 ALASKA'S CAPITAL CITY
DEPARTMENT OF ENGINEERING

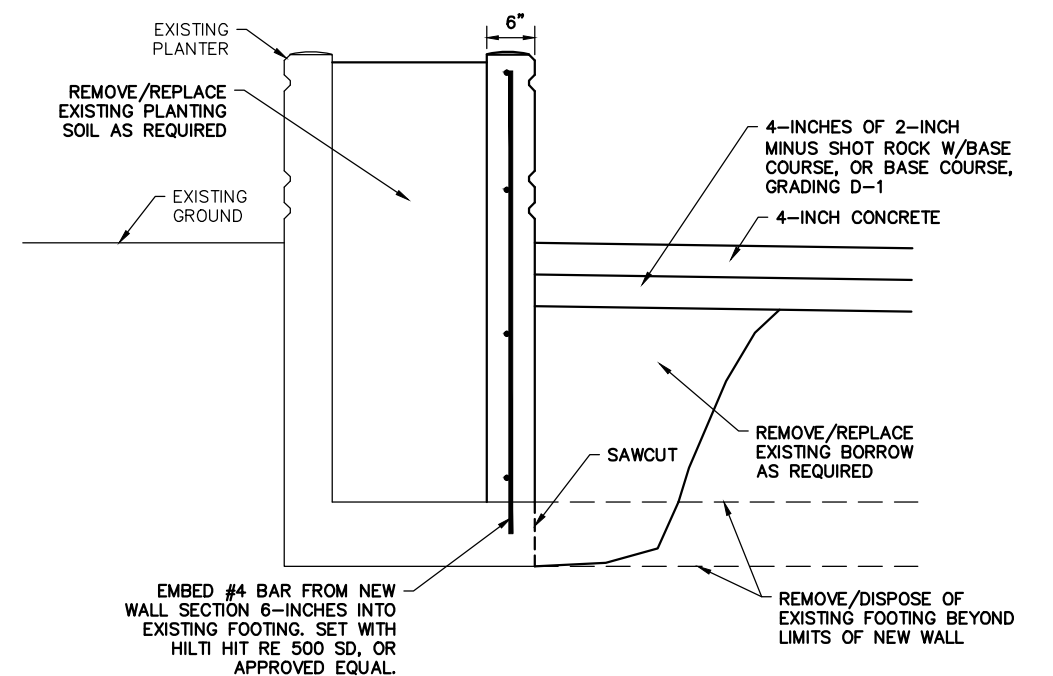
**DOWNTOWN STREET
IMPROVEMENTS - PHASE I
CONTRACT NO. BE17-137**

TYPICAL SECTIONS

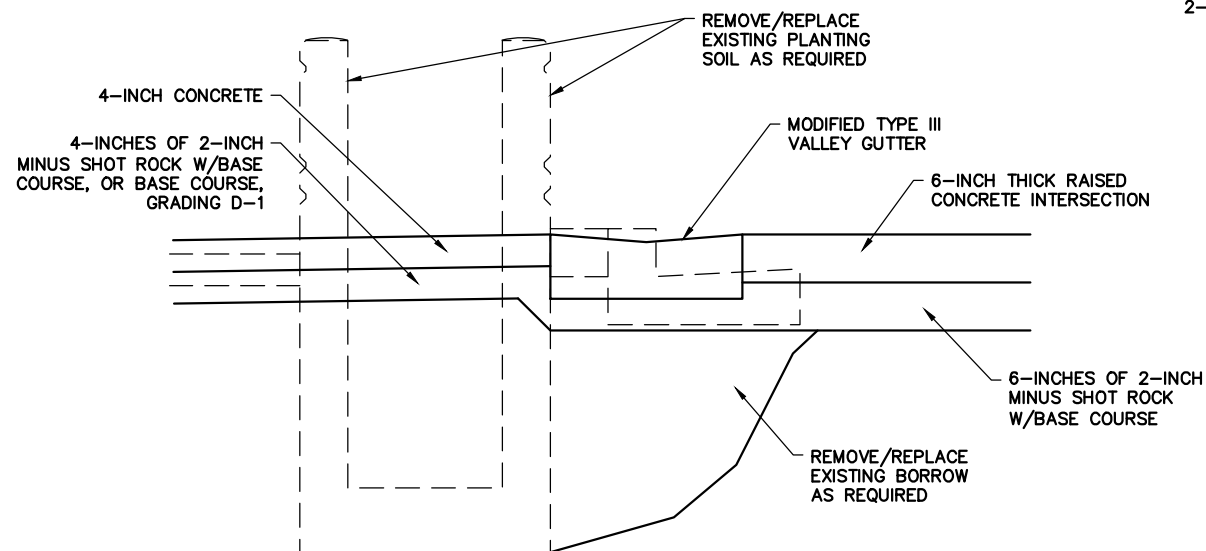
SHEET NO.
C.101
4 of 39



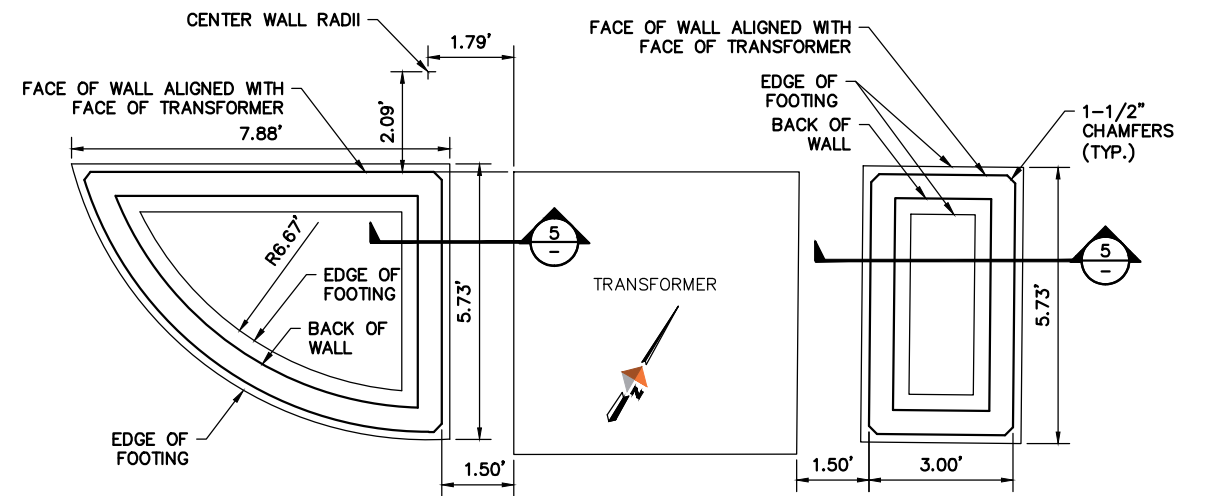
1
-
NTS
MANILA SQUARE - PLAN



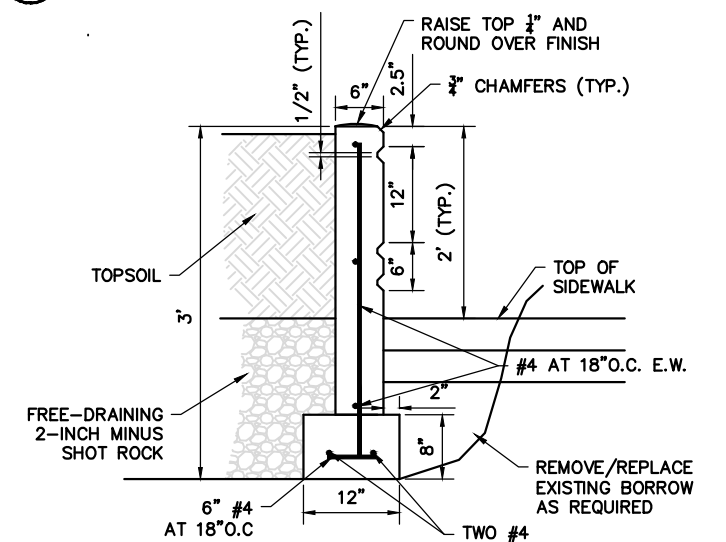
2
-
NTS
MANILA SQUARE SECTION



3
-
NTS
MANILA SQUARE SECTION

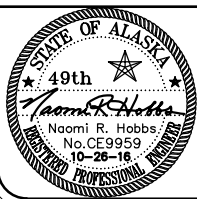


4
-
NTS
RED DOG PLANTERS - PLAN



5
-
NTS
RED DOG PLANTER SECTION

C:\Civil_3D\Projects\22\70878-01\Civil\SC14-CT-DT-WL-70878.dwg 2016-10-26 16:31:50



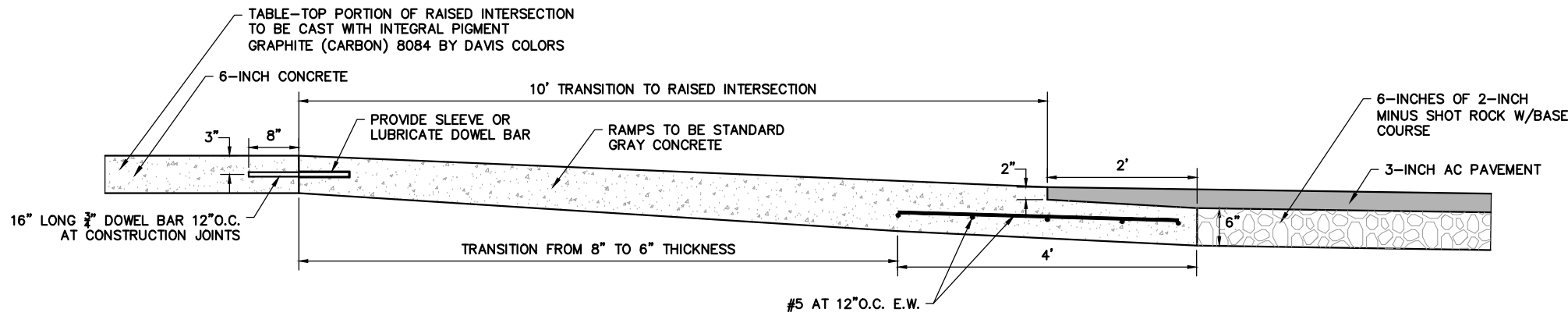
DOWL
 Consulting Engineers • Land Surveyors • Construction Administration
 5368 Commercial Blvd.
 Juneau, Alaska 99801
 (907) 780-3533 Office
 (907) 780-3535 Fax
 JOB No. J70878 DRAWN BY: STAFF DESIGNED BY: T. LOCKHART CHECKED BY: N. HOBBS DATE: OCT. 2016

CITY/BOROUGH OF JUNEAU
 ALASKA'S CAPITAL CITY
DEPARTMENT OF ENGINEERING

DOWNTOWN STREET IMPROVEMENTS - PHASE I
 CONTRACT NO. BE17-137

PLANTER DETAILS

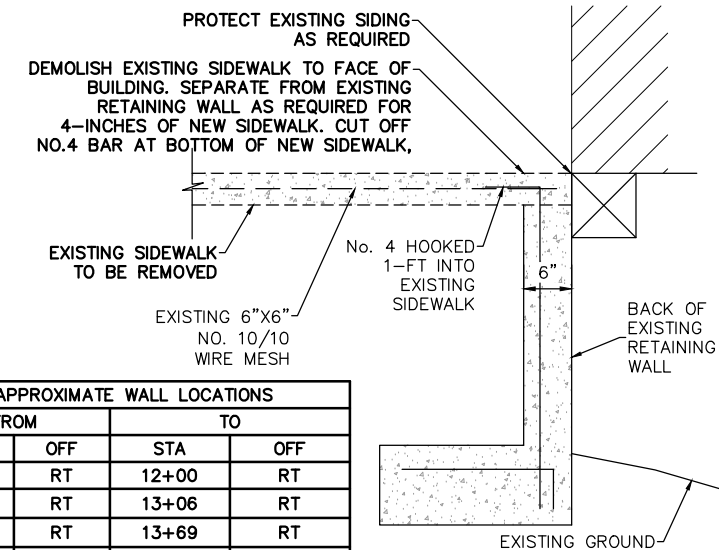
SHEET NO. **C.102**
5 of **39**



1 RAISED INTERSECTION TRANSITION

NTS

NOTE: THIS DETAIL TO BE USED FOR EACH OF THE THREE TRANSITION RAMPS

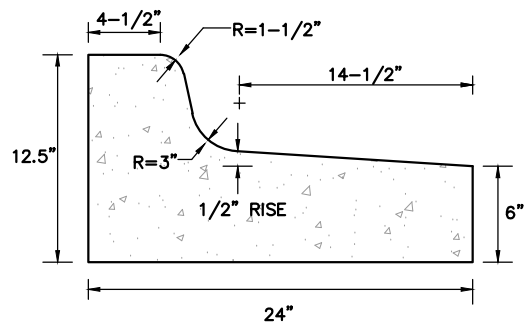


APPROXIMATE WALL LOCATIONS			
FROM STA	OFF	TO STA	OFF
11+44	RT	12+00	RT
12+31	RT	13+06	RT
13+19	RT	13+69	RT
11+40	LT	11+61	LT

NOTE: THE EXACT LOCATION OF EXISTING RETAINING WALLS IN RELATION TO THE BUILDING FACE MAY VARY.

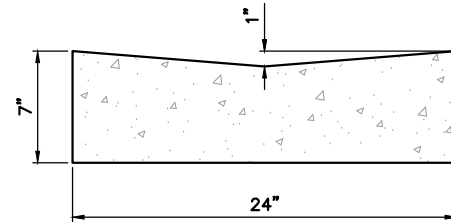
7 SIDEWALK DEMOLITION AT RETAINING WALL

NTS



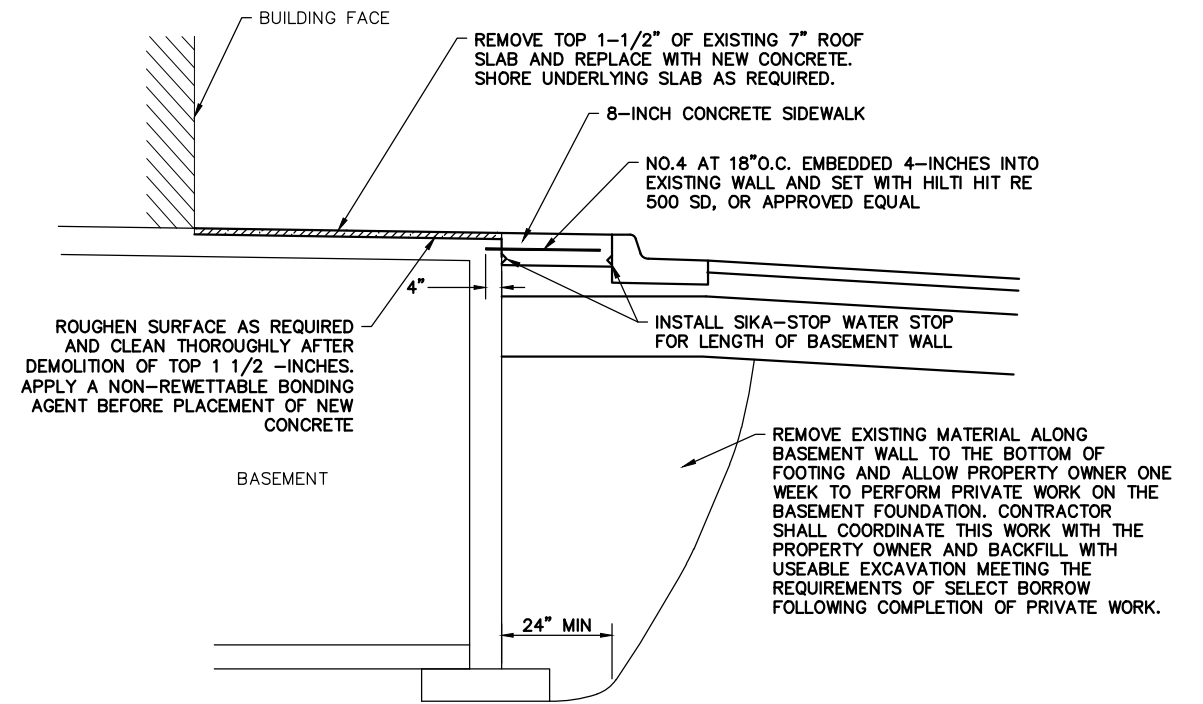
2 SPILL GUTTER

NTS



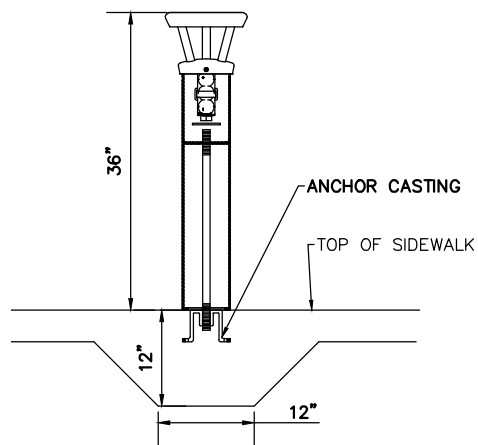
4 MODIFIED TYPE III VALLEY GUTTER

NTS



3 ALASKAN HOTEL SIDEWALK SECTION

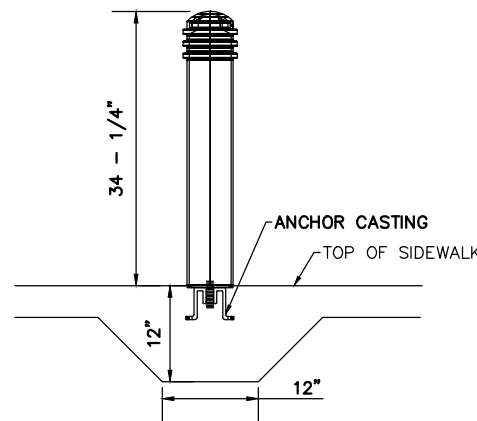
NTS



5 SOLAR LIGHT BOLLARD

NTS

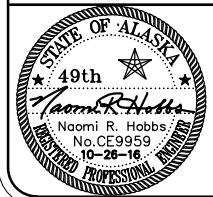
BOLLARD LOCATION		
STA	OFF	STYLE
14+35.0	29.1 RT	DECORATIVE
14+35.1	37.9 RT	DECORATIVE
14+35.3	47.1 RT	DECORATIVE
14+35.5	55.9 RT	DECORATIVE
14+37.7	60.6 RT	DECORATIVE
18+08.9	11.0 RT	SOLAR
18+08.9	10.3 LT	SOLAR
18+14.9	10.1 LT	SOLAR
18+20.9	9.9 LT	SOLAR
18+26.9	9.8 LT	SOLAR
18+32.9	9.6 LT	SOLAR
18+38.9	9.4 LT	SOLAR
18+40.0	15.7 RT	SOLAR
18+42.2	13.5 RT	SOLAR



6 DECORATIVE BOLLARD

NTS

C:\Civil_3D\Projects\22\70878-01\Civil\SC14-CT-DT-WL-70878.dwg 2016-10-26 15:13:59



DOWL

Consulting Engineers • Land Surveyors • Construction Administration

5368 Commercial Blvd.
Juneau, Alaska 99801
(907) 780-3533 Office
(907) 780-3535 Fax

JOB No. J70878 DRAWN BY: STAFF DESIGNED BY: T. LOCKHART CHECKED BY: N. HOBBS DATE: OCT. 2016

CITY/BOROUGH OF JUNEAU

ALASKA'S CAPITAL CITY

DEPARTMENT OF ENGINEERING

DOWNTOWN STREET IMPROVEMENTS - PHASE I

CONTRACT NO. BE17-137

CONCRETE DETAILS

SHEET NO. **C.103**

6 of **39**

CORROSION PROTECTION SPECIFICATIONS AND NOTES:

ANODES

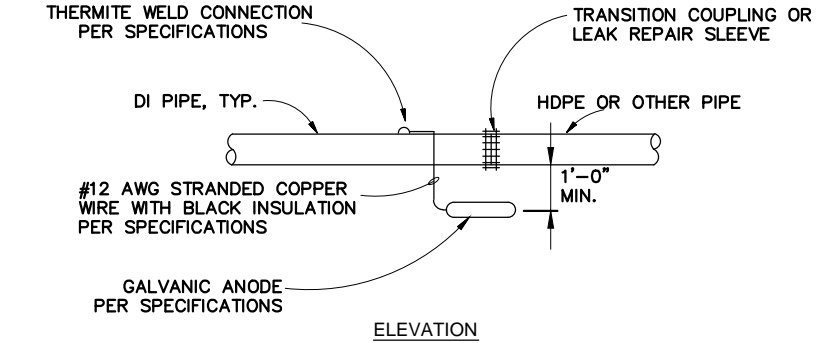
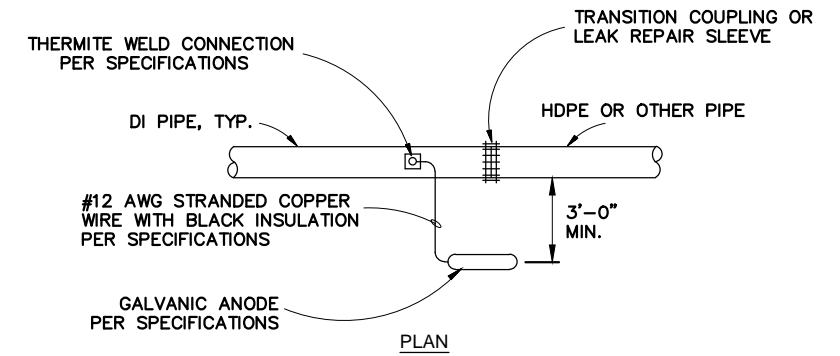
1. ANODES SHALL BE 18-LBS BARE WEIGHT ZINC WITH PREPACKAGED ANODE BACKFILL.
2. ACCEPTABLE ANODE MODELS ARE:
 - a. MODEL NO. ZUR-18 FROM FARWEST INDUSTRIES
 - b. MODEL S18 FROM MESA PRODUCTS
 - c. APPROVED EQUAL
3. INSTALL TYPE, SIZE, AND NUMBER OF ANODES SPECIFIED.
4. CONDUCTOR WIRE SHALL BE A MINIMUM SIZE OF #12 AWG STRANDED COPPER WITH INSULATION SUITABLE FOR WET LOCATION DIRECT BURIAL AND SHALL BE A MINIMUM OF 10 FEET LONG FROM ANODE.
5. PREPACKAGED ANODE SHALL BE SATURATED WITH WATER PRIOR TO BACKFILL.
6. ANODES SHALL BE PLACED IN NATIVE EARTH BACKFILL. DO NOT PLACE IN PIPE BEDDING MATERIAL.

THERMITE (EXOTERMIC) WELDING

1. THERMITE WELD MATERIALS SHALL BE DESIGNED FOR CONNECTION OF COPPER TO DUCTILE IRON AND CAST IRON SURFACES AND SHALL BE INSTALLED PER MANUFACTURERS INSTRUCTIONS.
2. ACCEPTABLE MANUFACTURES OF THERMITE WELD PRODUCTS ARE:
 - a. CADWELD BY ERICO PRODUCTS INC.
 - b. THERMOWELD BY CONTINENTAL INDUSTRIES INC.
 - c. APPROVED EQUAL
3. A 2-INCH SQUARE AREA IN THE PIPE SURFACE SHALL BE GROUND CLEAN PER MANUFACTURERS RECOMMENDATIONS PRIOR TO THERMITE WELDING.
4. WIRE ENDS SHALL HAVE PROPER ADAPTER SLEEVES TO ENSURE PROPER BOND. #12 AWG SHALL HAVE ADAPTER SLEEVES SPECIFIED BY THERMITE WELD MANUFACTURER. FIELD INSTALLED SLEEVES SHALL HAVE WIRE CONDUCTOR EXTEND 1/4-INCH BEYOND ENDS OF SLEEVE.
5. WIRE CONNECTION SHALL BE TESTED FOR INTEGRITY PRIOR TO COATING.
6. CONTINUITY STRAPS SHALL BE #2 AWG COPPER STRANDED WIRE WITH THW INSULATION AND SHALL BE ATTACHED TO THE PIPE BY THERMITE WELDING AND COATED AND SEALED AS DESCRIBED BELOW.

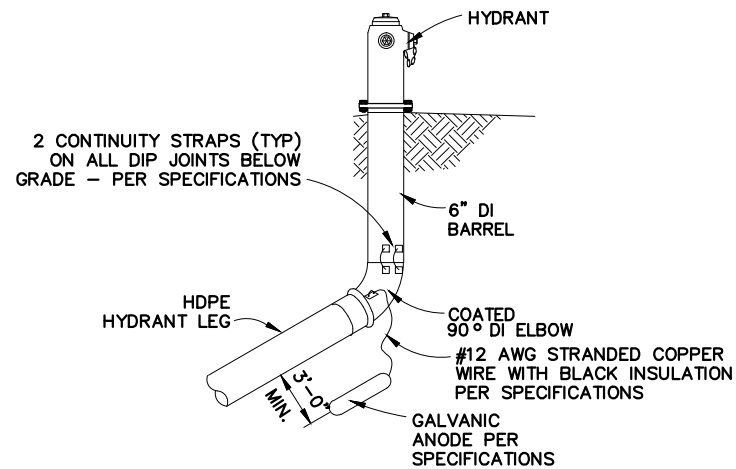
COATING AND SEALING

1. ALL THERMITE WELDS SHALL BE PROTECTED AND SEALED BY:
 - a. PREFABRICATED THERMITE WELD CAPS, SIZED ACCORDING TO WIRE SIZE, MINIMUM DIMENSIONS OF 4-INCH BY 4-INCH FILLED WITH ELASTOMERIC MASTIC COATING OR,
 - b. HEAT SHRINK SLEEVE PIPE ENCASUREMENT AFTER COATING THERMITE WELD WITH ELASTOMERIC MASTIC COATING - HEAT SHRINK SLEEVE SHALL BE CANUSA AQUA SEAL OR APPROVED EQUAL.
2. ALL PIPE SURFACE COATING DAMAGED BEYOND THE WELD CAPS OR HEAT SHRINK SHALL BE COATED WITH PROTAL 7125 FROM DENSO NORTH AMERICA OR APPROVED EQUAL.



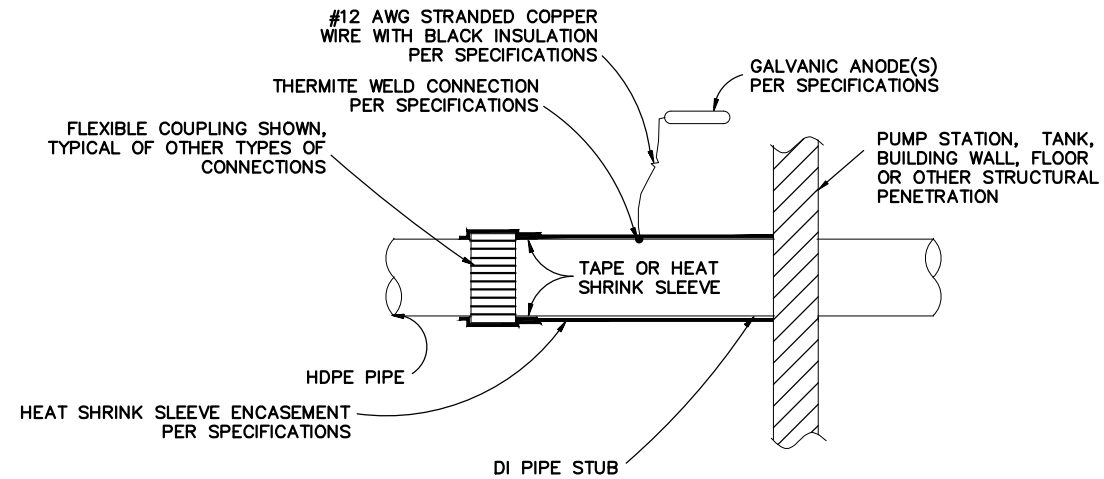
GALVANIC ANODE INSTALLATION FOR EXISTING METALLIC PIPE CONNECTIONS OR LEAK REPAIR LOCATIONS DETAIL

NTS



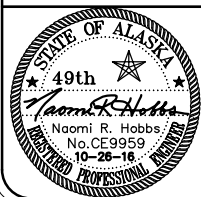
GALVANIC ANODE INSTALLATION AT HYDRANT ASSEMBLIES W/ HDPE

NTS



ENCASED METAL PIPE STUB BETWEEN PLASTIC PIPE, FEXIBLE COUPLING AND CONCRETE STRUCTURE CONNECTION

NTS



DOWL
 Consulting Engineers • Land Surveyors • Construction Administration

5368 Commercial Blvd.
 Juneau, Alaska 99801
 (907) 780-3533 Office
 (907) 780-3535 Fax

JOB No. J70878 DRAWN BY: STAFF DESIGNED BY: T. LOCKHART CHECKED BY: N. HOBBS DATE: OCT. 2016

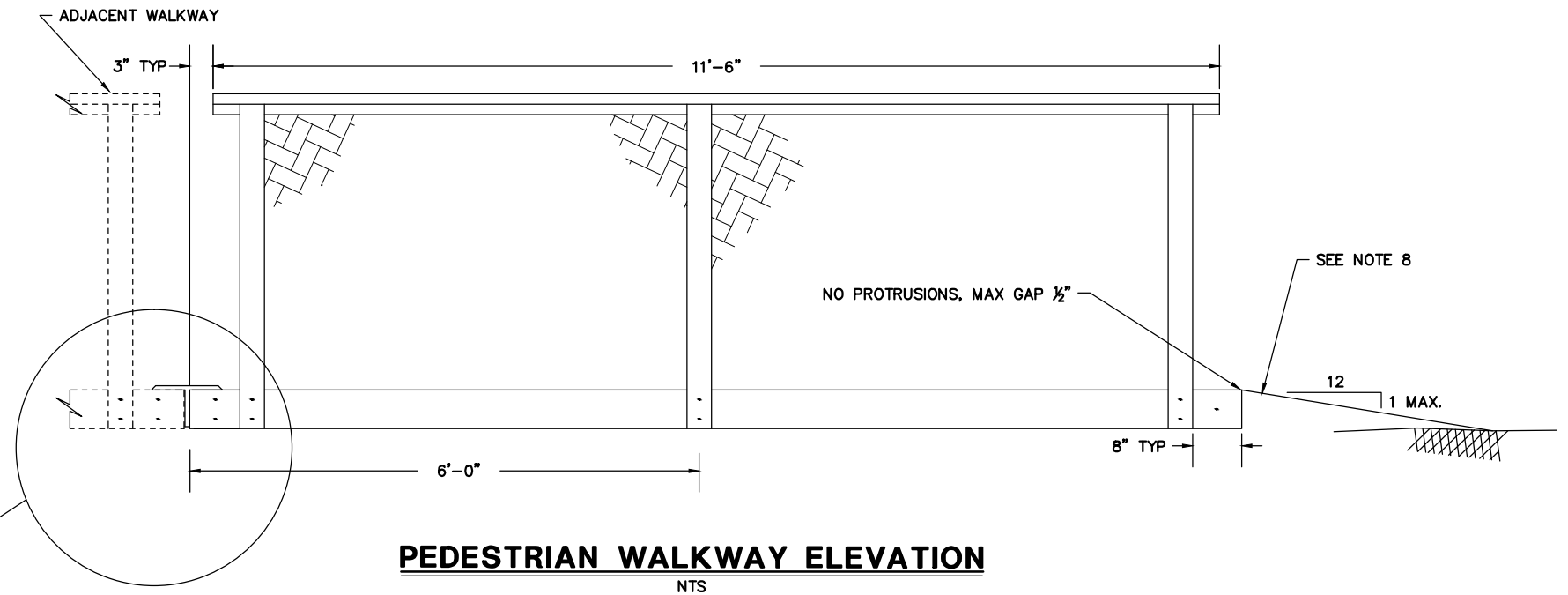
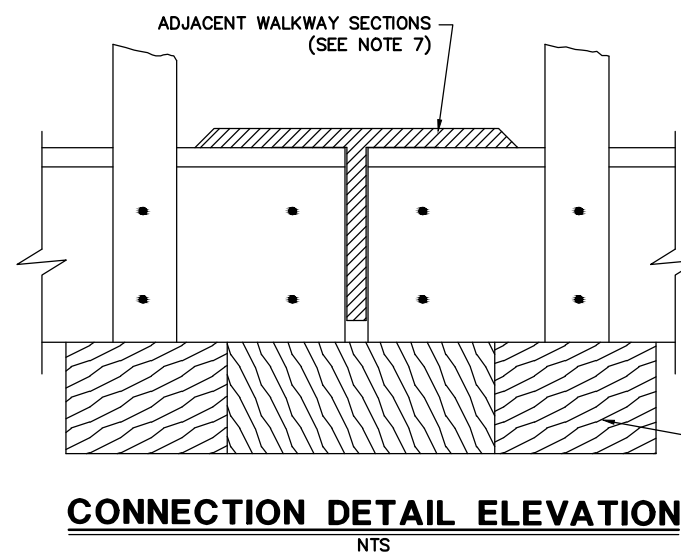
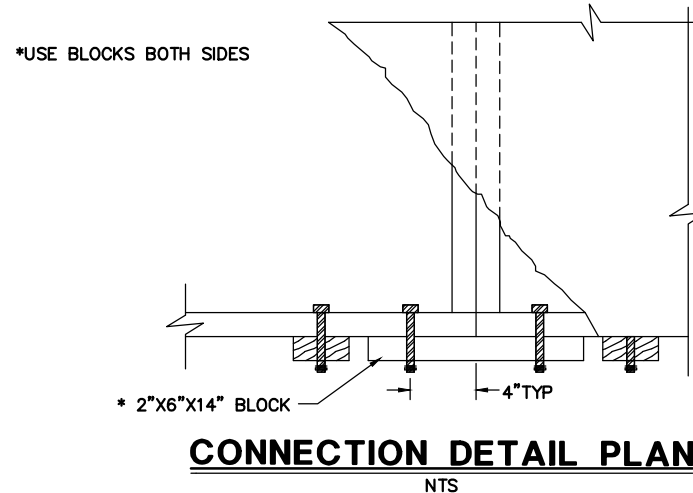
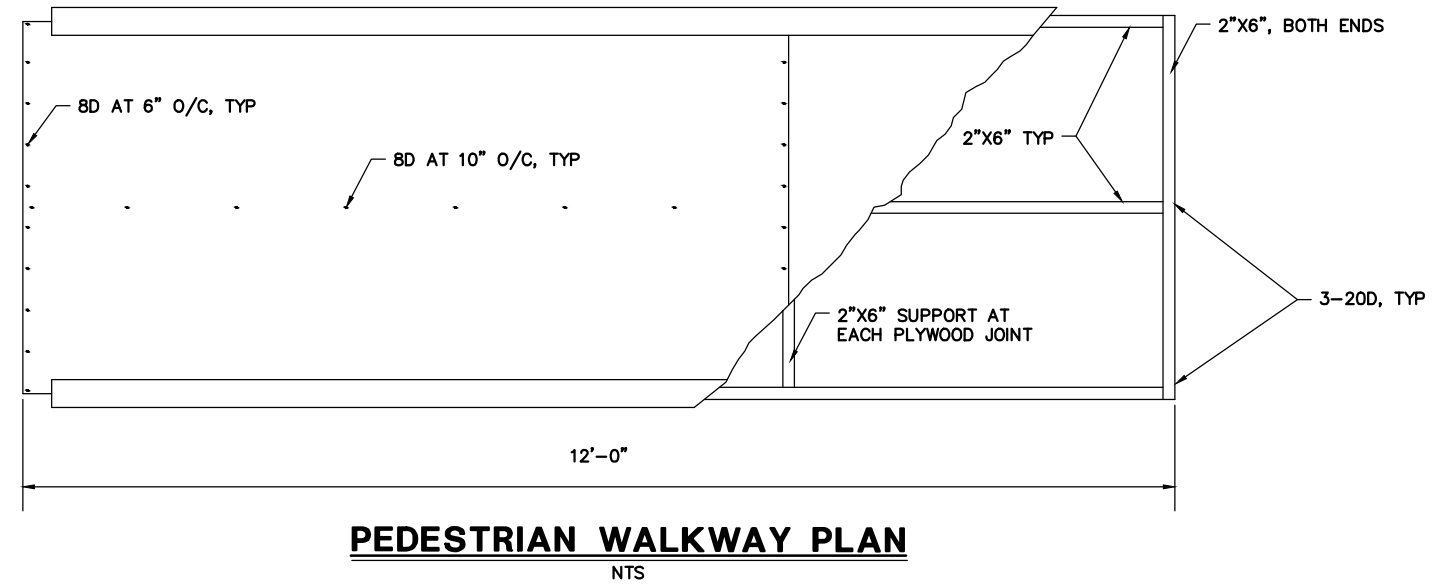
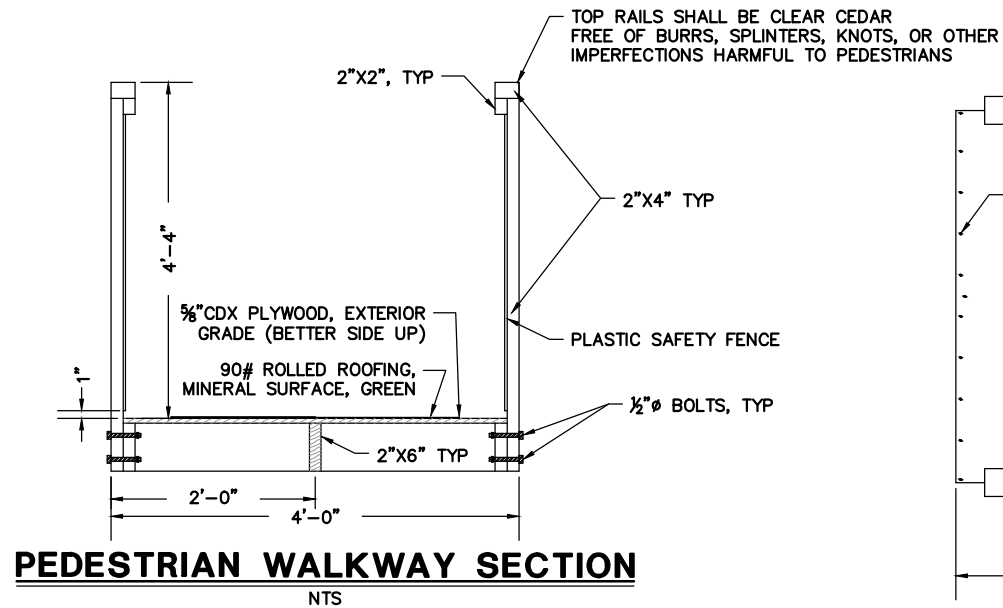
CITY/BOROUGH OF JUNEAU
 ALASKA'S CAPITAL CITY

DEPARTMENT OF ENGINEERING

DOWNTOWN STREET IMPROVEMENTS - PHASE I
CONTRACT NO. BE17-137

CORROSION PROTECTION DETAILS

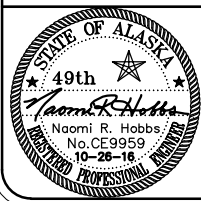
SHEET NO. **C.104**
7 of **39**



NOTES:

1. ALL MATERIALS USED IN PEDESTRIAN WALKWAY SHALL BE NEW.
2. ALL BOLTS AND NUTS SHALL BE 1/2" DIAMETER.
3. ALL WOOD USED SHALL BE STAINED WITH OLYMPIC SOLID, CAPE COD GREY, OR EQUIVALENT.
4. ALL NAIL AND SCREW HEADS SHALL BE FLUSH WITH SURFACE WITH NO PROTRUDING NAIL POINTS.
5. INNER RAIL SHALL BE REMOVED WHERE WALKWAY IS PLACED ADJACENT TO BUILDINGS AND TO ACCESS DOORWAYS.
6. SUPPORT WALKWAYS TO CARRY A UNIFORM LOAD OF 100 PSF.
7. USE WT 6X26.5 TEE TO COVER GAP BETWEEN SECTIONS. GRIND FLANGE EDGES TO 45°.
8. CONSTRUCT PLYWOOD OR METAL RAMP TO SUPPORT 100 PSF UNIFORM LOAD. COVER RAMP WITH SAME ROOFING PAPER USED ON WALKWAY, OR OTHER NON-SKID MATERIAL APPROVED BY THE ENGINEER.

C:\Civil_3D\Projects\22\70878-01\Civil\SC14-CT-DT-70878.dwg 2016-10-26 15:28:53



DOWL
Consulting Engineers • Land Surveyors • Construction Administration

5368 Commercial Blvd.
Juneau, Alaska 99801
(907) 780-3533 Office
(907) 780-3535 Fax

JOB No. J70878 DRAWN BY: STAFF DESIGNED BY: T. LOCKHART CHECKED BY: N. HOBBS DATE: OCT. 2016

CITY/BOROUGH OF JUNEAU
ALASKA'S CAPITAL CITY

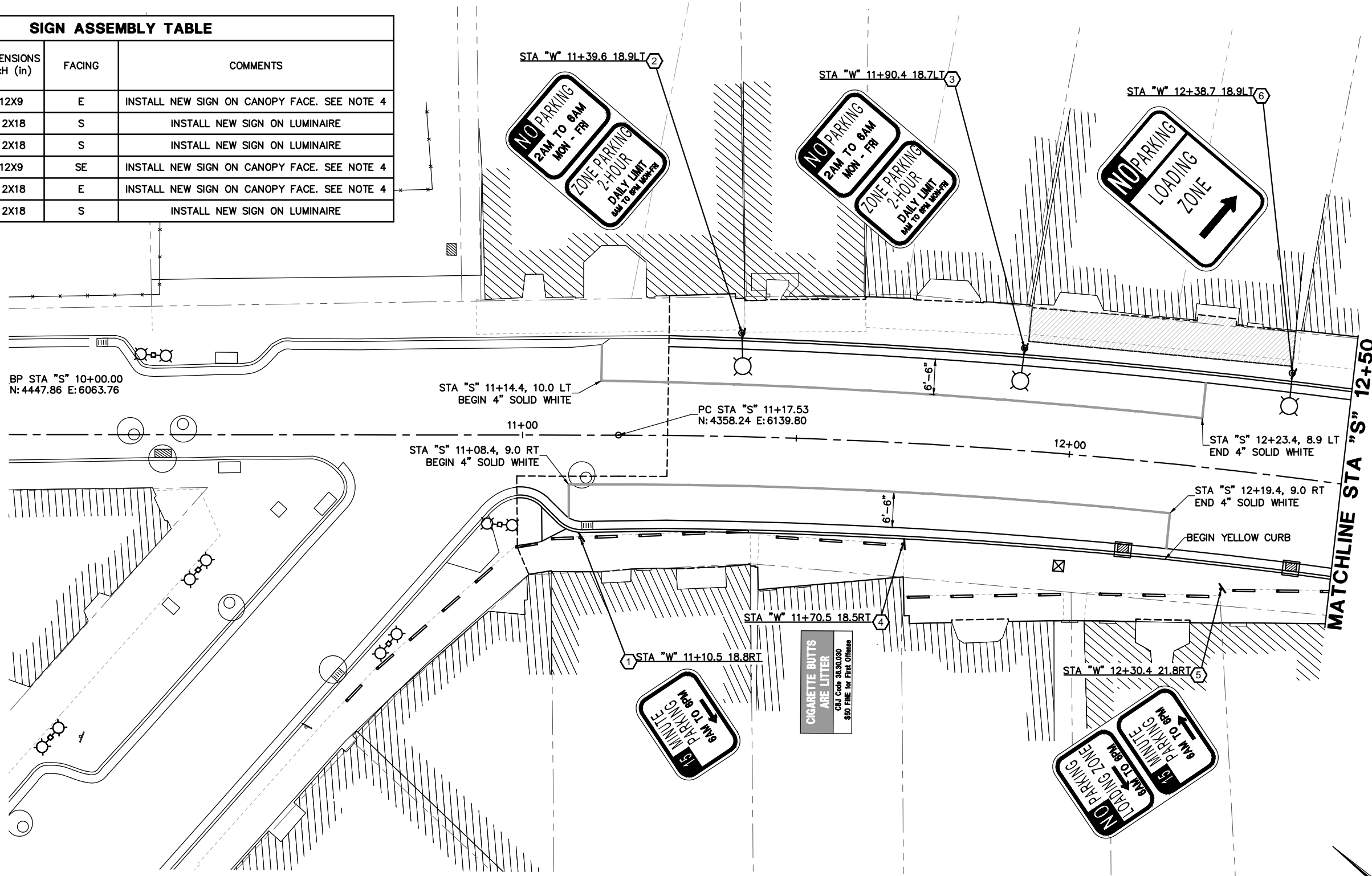
DEPARTMENT OF ENGINEERING

**DOWNTOWN STREET
IMPROVEMENTS - PHASE I
CONTRACT NO. BE17-137**

**TEMPORARY PEDESTRIAN
WALKWAY DETAIL**

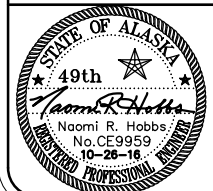
SHEET NO.
C.105
8
of
39

SIGN ASSEMBLY TABLE				
POST/LUMINAIRE NO.	MUTCD DESIGNATION	DIMENSIONS LxH (in)	FACING	COMMENTS
1	CUSTOM	12X9	E	INSTALL NEW SIGN ON CANOPY FACE. SEE NOTE 4
2	CUSTOM	12X18	S	INSTALL NEW SIGN ON LUMINAIRE
3	CUSTOM	12X18	S	INSTALL NEW SIGN ON LUMINAIRE
4	CUSTOM	12X9	SE	INSTALL NEW SIGN ON CANOPY FACE. SEE NOTE 4
5	CUSTOM	12X18	E	INSTALL NEW SIGN ON CANOPY FACE. SEE NOTE 4
6	CUSTOM	12X18	S	INSTALL NEW SIGN ON LUMINAIRE



- NOTES**
1. PAINTED TRAFFIC MARKINGS SHALL BE ALKYD OIL BASED.
 2. LOCATION OF PAINTED TRAFFIC MARKINGS AND SIGN POST SHOWN ARE APPROXIMATE AND SHALL BE APPROVED BY THE ENGINEER PRIOR TO INSTALLATION.
 3. REMOVE AND DELIVER ALL HISTORIC WAY FINDING SIGNS TO CBJ STREETS.
 4. ATTACH SIGN PANELS TO CANOPY FACE WITH TELSPAR AND STAINLESS STEEL HARDWARE, MINIMUM VERTICAL CLEARANCE OF 7-FT.

C:\Civil_3D\Projects\22\70878-01\Civil\SG14-CT-SG-70878.dwg 2016-10-26 16:19:46



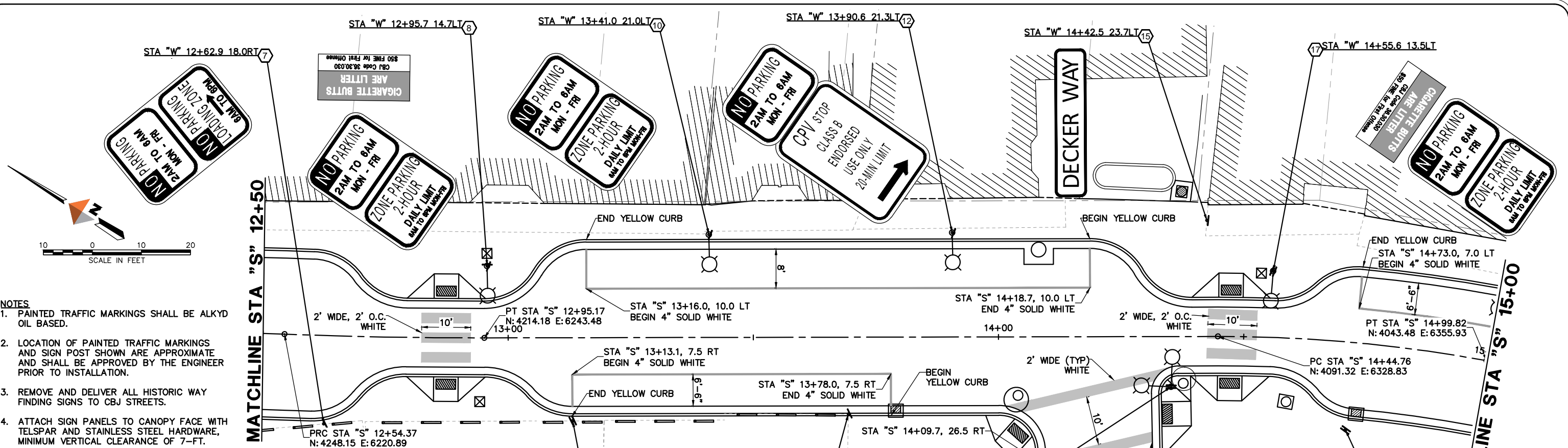
DOWL
 Consulting Engineers • Land Surveyors • Construction Administration
 5368 Commercial Blvd.
 Juneau, Alaska 99801
 (907) 780-3533 Office
 (907) 780-3535 Fax
 JOB No. J70878 DRAWN BY: STAFF DESIGNED BY: T. LOCKHART CHECKED BY: N. HOBBS DATE: OCT. 2016

CITY/BOROUGH OF JUNEAU
 ALASKA'S CAPITAL CITY
DEPARTMENT OF ENGINEERING

DOWNTOWN STREET IMPROVEMENTS - PHASE I
 CONTRACT NO. BE17-137

PAINTED TRAFFIC MARKINGS AND SIGN LAYOUT
 BOP TO STA "S" 12+50

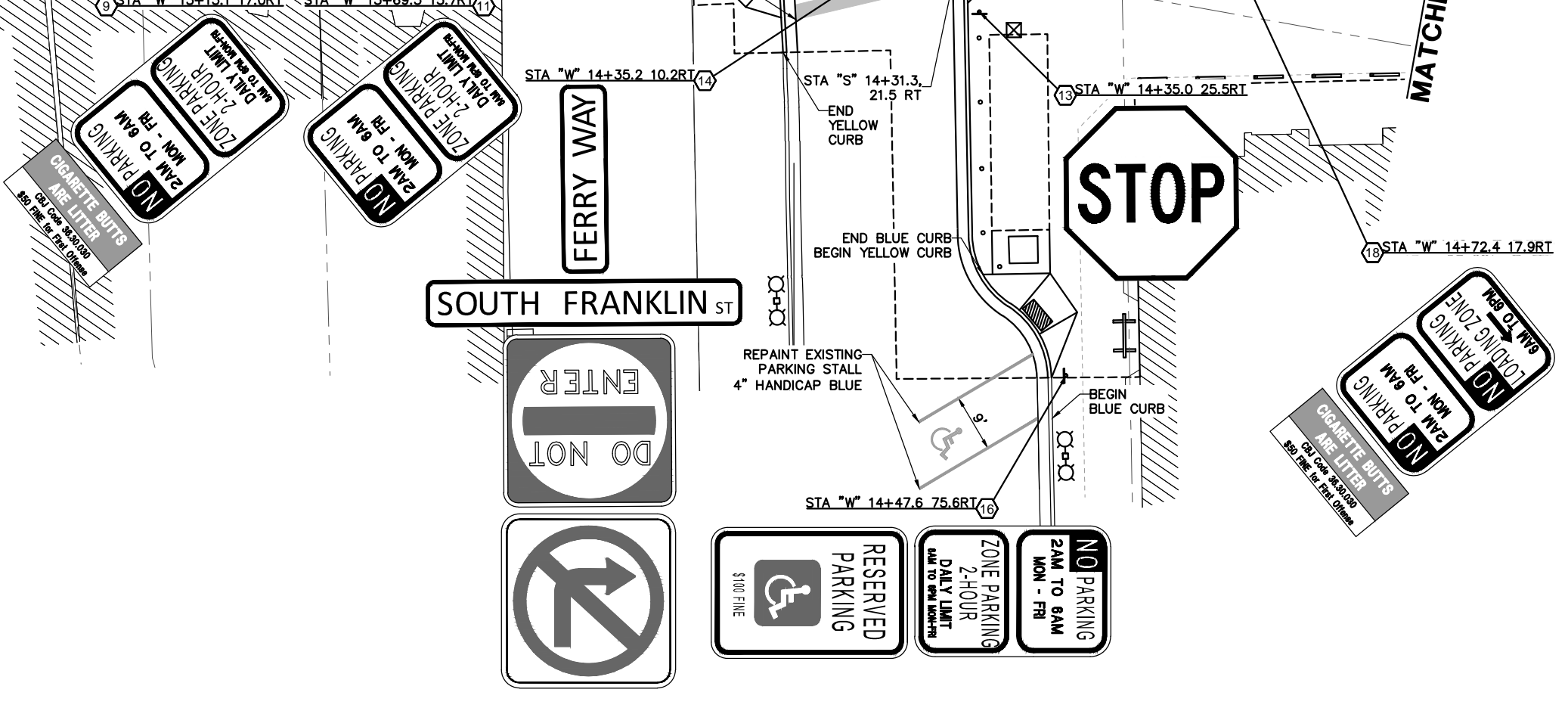
SHEET NO. **C.106**
 9 of 39



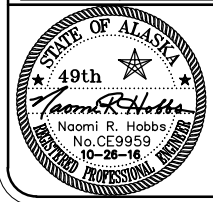
- NOTES**
1. PAINTED TRAFFIC MARKINGS SHALL BE ALKYD OIL BASED.
 2. LOCATION OF PAINTED TRAFFIC MARKINGS AND SIGN POST SHOWN ARE APPROXIMATE AND SHALL BE APPROVED BY THE ENGINEER PRIOR TO INSTALLATION.
 3. REMOVE AND DELIVER ALL HISTORIC WAY FINDING SIGNS TO CBJ STREETS.
 4. ATTACH SIGN PANELS TO CANOPY FACE WITH TELSPAR AND STAINLESS STEEL HARDWARE, MINIMUM VERTICAL CLEARANCE OF 7-FT.

SIGN ASSEMBLY TABLE

POST/LUMINAIRE NO.	MUTCD DESIGNATION	DIMENSIONS LxH (in)	FACING	COMMENTS
7	CUSTOM	12X18	E	INSTALL NEW SIGN ON CANOPY FACE. SEE NOTE 4
8	CUSTOM	12X9	NE	INSTALL NEW SIGN ON LUMINAIRE
	CUSTOM	12X18	S	INSTALL NEW SIGN ON LUMINAIRE
9	CUSTOM	12X18	E	INSTALL NEW SIGN ON CANOPY FACE. SEE NOTE 4
	CUSTOM	12X9	W	INSTALL NEW SIGN ON CANOPY FACE. SEE NOTE 4
10	CUSTOM	12X18	S	INSTALL NEW SIGN ON LUMINAIRE
11	CUSTOM	12X18	E	INSTALL NEW SIGN ON CANOPY FACE. SEE NOTE 4
12	CUSTOM	12X9	S	INSTALL NEW SIGN ON LUMINAIRE
	CUSTOM	12X18	S	INSTALL NEW SIGN ON LUMINAIRE
14	R1-1	30X30	SW	INSTALL NEW SIGN ON NEW POST
	D-3	33X8	SE/NW	INSTALL NEW SIGNS (2) ON LUMINAIRE
	D-3	54X8	SW/NE	INSTALL NEW SIGNS (2) ON LUMINAIRE
	R5-1	30X30	NE	INSTALL NEW SIGN ON LUMINAIRE
15	R3-1	30X30	SW	INSTALL NEW SIGN ON LUMINAIRE
	D-3	38X8	SE/NW	INSTALL NEW SIGNS (2) ON CANOPY FACE. SEE NOTE 4
16	CUSTOM	12X18	NW	INSTALL NEW SIGN ON NEW POST
	R7-8	12X18	NW	INSTALL NEW SIGN ON NEW POST
17	CUSTOM	12X9	N	INSTALL NEW SIGN ON LUMINAIRE
	CUSTOM	12X18	S	INSTALL NEW SIGN ON LUMINAIRE
18	CUSTOM	12X18	E	INSTALL NEW SIGN ON NEW POST
	CUSTOM	12X9	W	INSTALL NEW SIGN ON NEW POST



C:\Civil_3D\Projects\22\70878-01\Civil\SC14-CT-SG-70878.dwg 2016-10-26 16:22:04



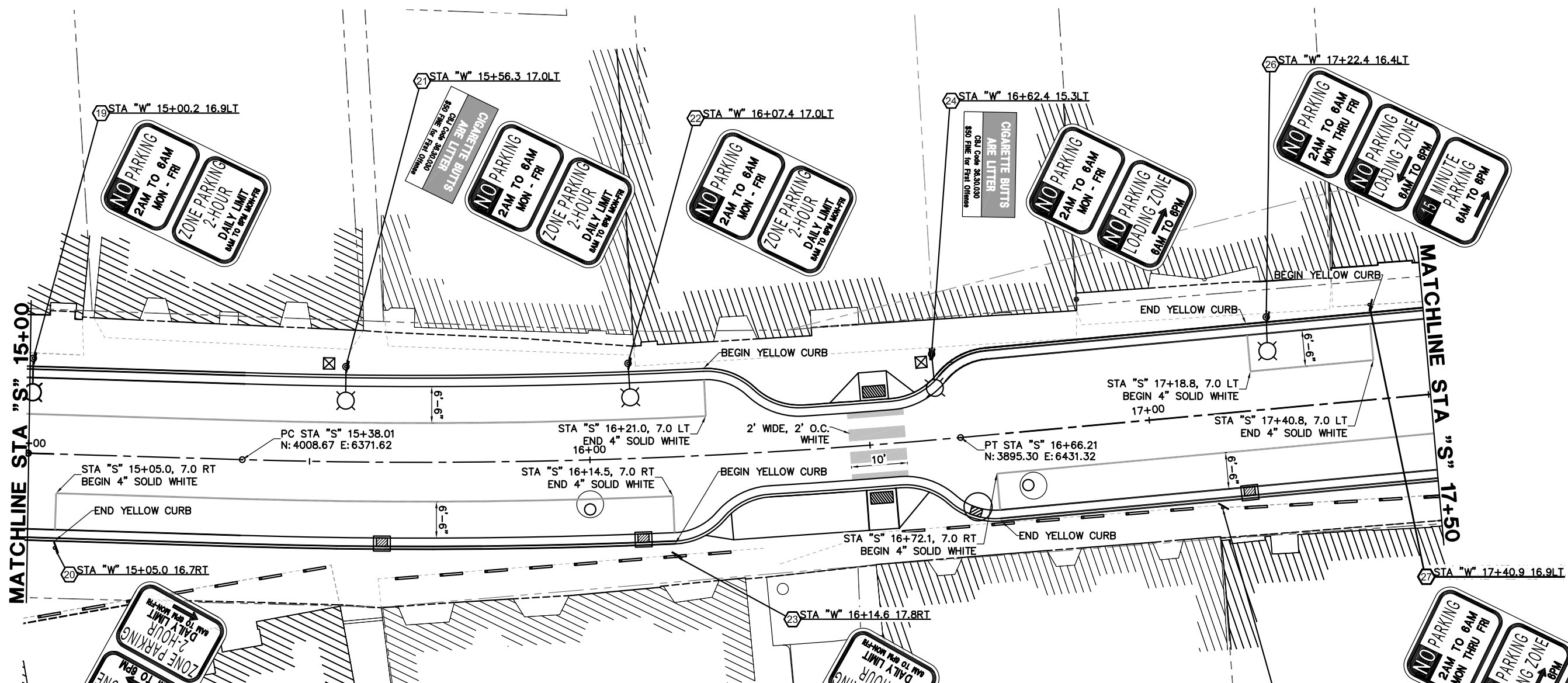
DOWL
 Consulting Engineers • Land Surveyors • Construction Administration
 5368 Commercial Blvd.
 Juneau, Alaska 99801
 (907) 780-3533 Office
 (907) 780-3535 Fax
 JOB No. J70878 DRAWN BY: STAFF DESIGNED BY: T. LOCKHART CHECKED BY: N. HOBBS DATE: OCT. 2016

CITY/BOROUGH OF JUNEAU
 ALASKA'S CAPITAL CITY
DEPARTMENT OF ENGINEERING

DOWNTOWN STREET IMPROVEMENTS - PHASE I
 CONTRACT NO. BE17-137

PAINTED TRAFFIC MARKINGS AND SIGN LAYOUT
 STA "S" 12+50 TO STA "S" 15+00

SHEET NO.
C.107
 10 of 39



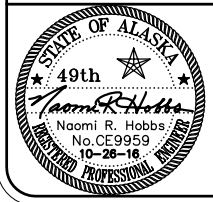
SIGN ASSEMBLY TABLE

POST/LUMINAIRE NO.	MUTCD DESIGNATION	DIMENSIONS LxH (in)	FACING	COMMENTS
19	CUSTOM	12X18	S	INSTALL NEW SIGN ON LUMINAIRE
20	CUSTOM	12X27	E	INSTALL NEW SIGN ON NEW POST
21	CUSTOM	12X9	N	INSTALL NEW SIGN ON LUMINAIRE
	CUSTOM	12X18	S	INSTALL NEW SIGN ON LUMINAIRE
22	CUSTOM	12X18	S	INSTALL NEW SIGN ON LUMINAIRE
23	CUSTOM	12X18	E	INSTALL NEW SIGN ON CANOPY FACE. SEE NOTE 4
24	CUSTOM	12X9	NW	INSTALL NEW SIGN ON LUMINAIRE
	CUSTOM	12X18	S	INSTALL NEW SIGN ON LUMINAIRE
25	CUSTOM	12X18	E	INSTALL NEW SIGN ON CANOPY FACE. SEE NOTE 4
26	CUSTOM	12X27	S	INSTALL NEW SIGN ON LUMINAIRE
27	CUSTOM	12X27	S	INSTALL NEW SIGN ON CANOPY FACE

- NOTES**
1. PAINTED TRAFFIC MARKINGS SHALL BE ALKYD OIL BASED.
 2. LOCATION OF PAINTED TRAFFIC MARKINGS AND SIGN POST SHOWN ARE APPROXIMATE AND SHALL BE APPROVED BY THE ENGINEER PRIOR TO INSTALLATION.
 3. REMOVE AND DELIVER ALL HISTORIC WAY FINDING SIGNS TO CBJ STREETS.
 4. ATTACH SIGN PANELS TO CANOPY FACE WITH TELSPAR AND STAINLESS STEEL HARDWARE, MINIMUM VERTICAL CLEARANCE OF 7-FT.



C:\Civil_3D\Projects\22\70878-01\Civil\SC14-CT-SG-70878.dwg 2016-10-27 10:48:22



DOWL
 Consulting Engineers • Land Surveyors • Construction Administration

5368 Commercial Blvd.
 Juneau, Alaska 99801
 (907) 780-3533 Office
 (907) 780-3535 Fax

JOB No. J70878 DRAWN BY: STAFF DESIGNED BY: T. LOCKHART CHECKED BY: N. HOBBS DATE: OCT. 2016

CITY/BOROUGH OF JUNEAU
 ALASKA'S CAPITAL CITY

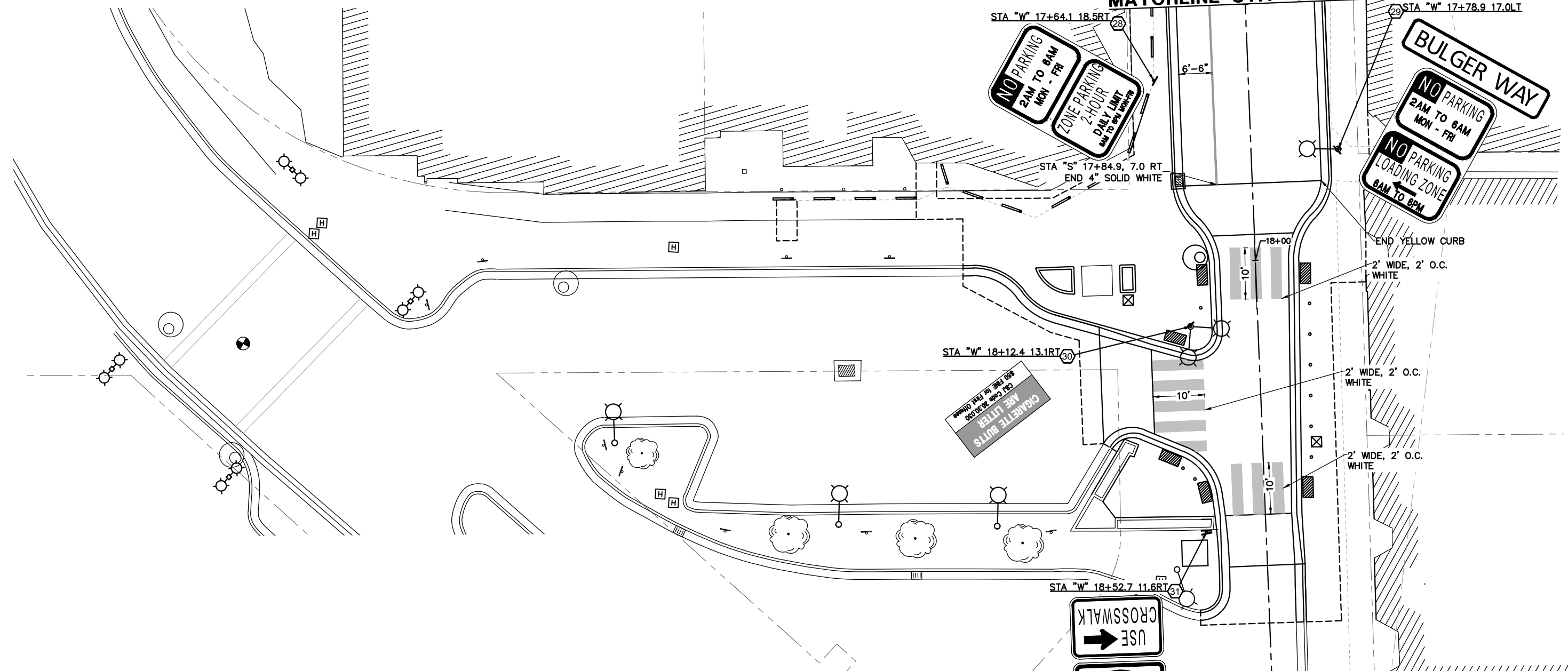
DEPARTMENT OF ENGINEERING

DOWNTOWN STREET IMPROVEMENTS - PHASE I
CONTRACT NO. BE17-137

PAINTED TRAFFIC MARKINGS AND SIGN LAYOUT
STA "S" 15+00 TO STA "S" 17+50

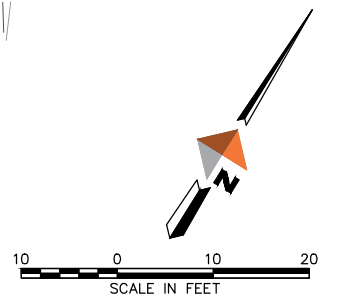
SHEET NO.
C.108
 11 of 39

MATCHLINE STA "S" 17+50

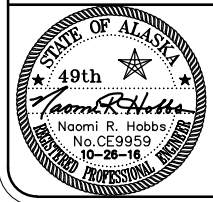


SIGN ASSEMBLY TABLE				
POST/LUMINAIRE NO.	MUTCD DESIGNATION	DIMENSIONS LxH (in)	FACING	COMMENTS
28	CUSTOM	12X18	E	INSTALL NEW SIGN ON CANOPY FACE. SEE NOTE 4
29	D-3	30X8	S/N	INSTALL NEW SIGNS (2) ON LUMINAIRE
	CUSTOM	12X18	S	INSTALL NEW SIGN ON LUMINAIRE
30	CUSTOM	12X9	NW	INSTALL NEW SIGN ON LUMINAIRE
31	R9-3a	18X18	NW	INSTALL NEW SIGN
	R9-3b	18x12	NW	INSTALL NEW SIGN
	CUSTOM	18X30	SE	INSTALL NEW SIGN

- NOTES**
1. PAINTED TRAFFIC MARKINGS SHALL BE ALKYD OIL BASED.
 2. LOCATION OF PAINTED TRAFFIC MARKINGS AND SIGN POST SHOWN ARE APPROXIMATE AND SHALL BE APPROVED BY THE ENGINEER PRIOR TO INSTALLATION.
 3. REMOVE AND DELIVER ALL HISTORIC WAY FINDING SIGNS TO CBJ STREETS.
 4. ATTACH SIGN PANELS TO CANOPY FACE WITH TELSPAR AND STAINLESS STEEL HARDWARE, MINIMUM VERTICAL CLEARANCE OF 7-FT.



C:\Civil_3D\Projects\22\70878-01\Civil\SC14-CT-SG-70878.dwg 2016-10-26 16:23:32



DOWL
 Consulting Engineers • Land Surveyors • Construction Administration

5368 Commercial Blvd.
 Juneau, Alaska 99801
 (907) 780-3533 Office
 (907) 780-3535 Fax

JOB No. J70878 DRAWN BY: STAFF DESIGNED BY: T. LOCKHART CHECKED BY: N. HOBBS DATE: OCT. 2016

CITY/BOROUGH OF JUNEAU
 ALASKA'S CAPITAL CITY

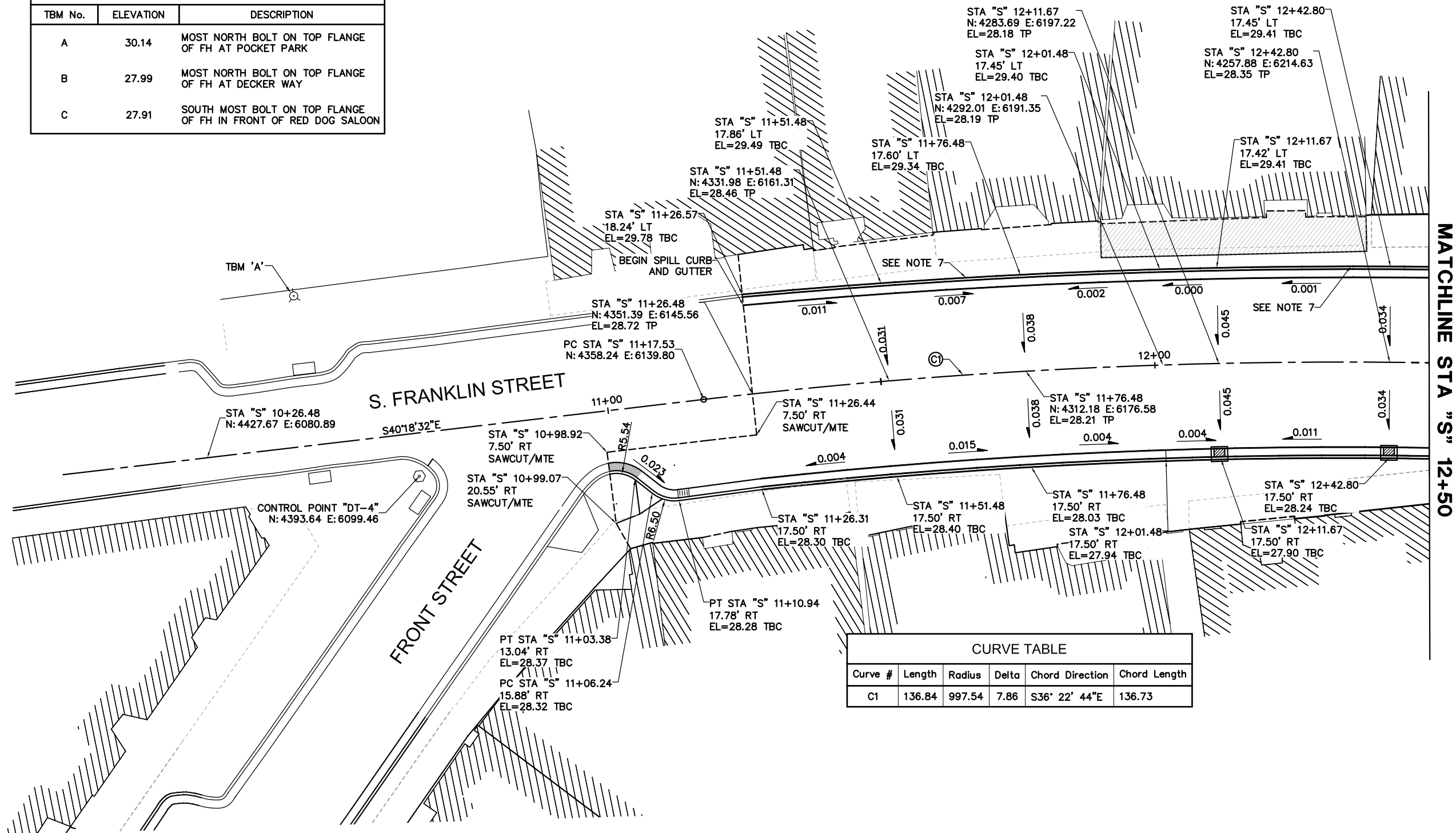
DEPARTMENT OF ENGINEERING

DOWNTOWN STREET IMPROVEMENTS - PHASE I
 CONTRACT NO. BE17-137

PAINTED TRAFFIC MARKINGS AND SIGN LAYOUT
 STA "S" 17+50 TO EOP

SHEET NO.
C.109
 12 of 39

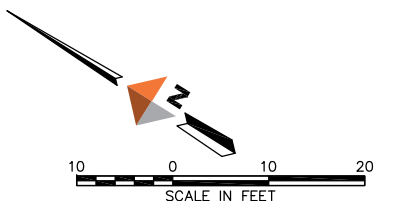
VERTICAL CONTROL		
TBM No.	ELEVATION	DESCRIPTION
A	30.14	MOST NORTH BOLT ON TOP FLANGE OF FH AT POCKET PARK
B	27.99	MOST NORTH BOLT ON TOP FLANGE OF FH AT DECKER WAY
C	27.91	SOUTH MOST BOLT ON TOP FLANGE OF FH IN FRONT OF RED DOG SALOON



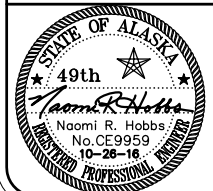
CURVE TABLE					
Curve #	Length	Radius	Delta	Chord Direction	Chord Length
C1	136.84	997.54	7.86	S36° 22' 44"E	136.73

NOTES

1. STATIONS, OFFSETS, ELEVATIONS AND CURVE INFORMATION ALONG CURBING ARE TO TOP BACK OF CURB (TBC), UNLESS OTHERWISE NOTED. TOP OF PAVEMENT ARE TP. TOP OF SIDEWALK ARE TSW. TOP BACK OF VALLEY GUTTER ARE TBG.
2. SEE TYPICAL SECTIONS FOR OTHER GRADING INFORMATION.
3. ESTABLISH VERTICAL CURVES AS NECESSARY FOR A SMOOTH ALIGNMENT (NO ANGLE POINTS) BY VISUALLY ALIGNING TOP OF CURB THROUGH VERTICAL CONTROL POINTS.
4. SIDEWALK CROSS-SLOPES GENERALLY VARY BETWEEN 0.5% AND 2.0% UNLESS OTHERWISE INDICATED SIDEWALK CROSS-SLOPES SHALL BE A STRAIGHT GRADE FROM THE TOP BACK OF CURB AND THE POINT AT WHICH THE EXISTING SIDEWALK MEETS BUILDING FACES AND DOOR ALCOVES.
5. SLOPE ARROWS ARE ONLY INTENDED TO DEPICT THE GENERAL DIRECTION OF FLOW. GRADING SHALL BE BASED ON THE LAYOUT ELEVATIONS PROVIDED.
6. SHADED CURB AND GUTTER REPRESENTS FULLY DEPRESSED CURB CUTS. SHADED SIDEWALK REPRESENTS 6-INCH CONCRETE THICKNESS.
7. BETWEEN STA "S" 11+26.57 LT AND STA "S" 12+59.92 LT THE OFFSET TO TBC VARIES. PROVIDE A SMOOTH TRANSITION THROUGH THE LAYOUT POINTS PROVIDED.



C:\Civil_3D\Projects\22\70878-01\Civil\SC14-CT-GR-70878.dwg 2016-10-26 17:25:01



DOWL
 Consulting Engineers • Land Surveyors • Construction Administration
 5368 Commercial Blvd.
 Juneau, Alaska 99801
 (907) 780-3533 Office
 (907) 780-3535 Fax
 JOB No. J70878 DRAWN BY: STAFF DESIGNED BY: T. LOCKHART CHECKED BY: N. HOBBS DATE: OCT. 2016

CITY/BOROUGH OF JUNEAU
 ALASKA'S CAPITAL CITY
DEPARTMENT OF ENGINEERING

DOWNTOWN STREET IMPROVEMENTS - PHASE I
CONTRACT NO. BE17-137

HORIZONTAL AND VERTICAL CONTROL CURB AND GUTTER LAYOUT AND GRADES BOP TO STA "S" 12+50

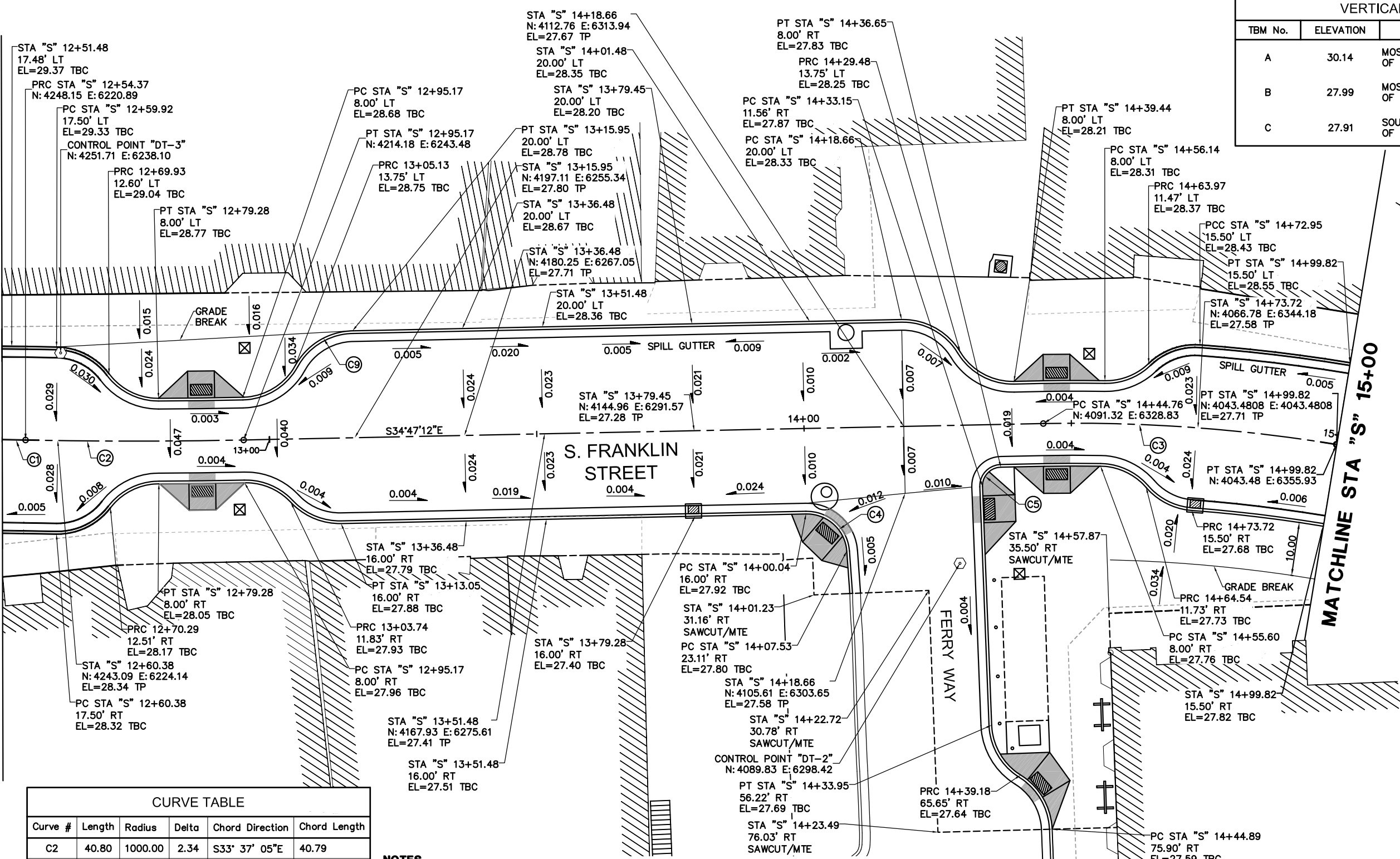
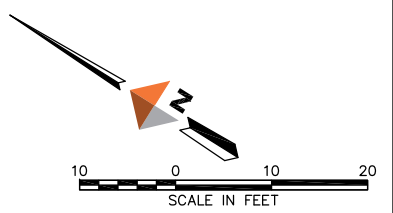
SHEET NO. **C.201**
 13 of 39

C:\Civil_3D\Projects\22\70878-01\Civil\SC14-CT-GR-70878.dwg 2016-10-26 17:25:38

MATCHLINE STA "S" 12+50

MATCHLINE STA "S" 15+00

VERTICAL CONTROL		
TBM No.	ELEVATION	DESCRIPTION
A	30.14	MOST NORTH BOLT ON TOP FLANGE OF FH AT POCKET PARK
B	27.99	MOST NORTH BOLT ON TOP FLANGE OF FH AT DECKER WAY
C	27.91	SOUTH MOST BOLT ON TOP FLANGE OF FH IN FRONT OF RED DOG SALOON



Curve #	Length	Radius	Delta	Chord Direction	Chord Length
C2	40.80	1000.00	2.34	S33° 37' 05"E	40.79
C3	55.06	300.00	10.52	S29° 31' 45"E	54.98
C4	11.39	7.50	87.03	S8° 43' 50"W	10.33
C5	5.56	3.50	91.02	S80° 17' 56"E	4.99

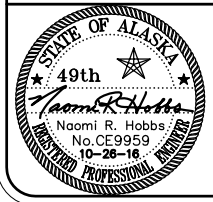
*UNLESS CURVE INFORMATION IS PROVIDED ABOVE ALL CURB RADII SHALL BE 12.0-FT TO FACE OF CURB.

NOTES

- STATIONS, OFFSETS, ELEVATIONS AND CURVE INFORMATION ALONG CURBING ARE TO TOP BACK OF CURB (TBC), UNLESS OTHERWISE NOTED. TOP OF PAVEMENT ARE TP. TOP OF SIDEWALK ARE TSW. TOP BACK OF VALLEY GUTTER ARE TBG.
- SEE TYPICAL SECTIONS FOR OTHER GRADING INFORMATION.
- ESTABLISH VERTICAL CURVES AS NECESSARY FOR A SMOOTH ALIGNMENT (NO ANGLE POINTS) BY VISUALLY ALIGNING TOP OF CURB THROUGH VERTICAL CONTROL POINTS.
- SIDEWALK CROSS-SLOPES GENERALLY VARY BETWEEN 0.5% AND 2.0% UNLESS OTHERWISE INDICATED. SIDEWALK CROSS-SLOPES SHALL BE A STRAIGHT GRADE FROM THE TOP BACK OF CURB AND THE POINT AT WHICH THE EXISTING SIDEWALK MEETS BUILDING FACES AND DOOR ALCOVES.

NOTES CONT'D

- SLOPE ARROWS ARE ONLY INTENDED TO DEPICT THE GENERAL DIRECTION OF FLOW. GRADING SHALL BE BASED ON THE LAYOUT ELEVATION PROVIDED.
- SHADED CURB AND GUTTER REPRESENTS FULLY DEPRESSED CURB CUTS. SHADED SIDEWALK REPRESENTS 6-INCH CONCRETE THICKNESS.



DOWL
 Consulting Engineers • Land Surveyors • Construction Administration
 5368 Commercial Blvd.
 Juneau, Alaska 99801
 (907) 780-3533 Office
 (907) 780-3535 Fax
 JOB No. J70878 DRAWN BY: STAFF DESIGNED BY: T. LOCKHART CHECKED BY: N. HOBBS DATE: OCT. 2016

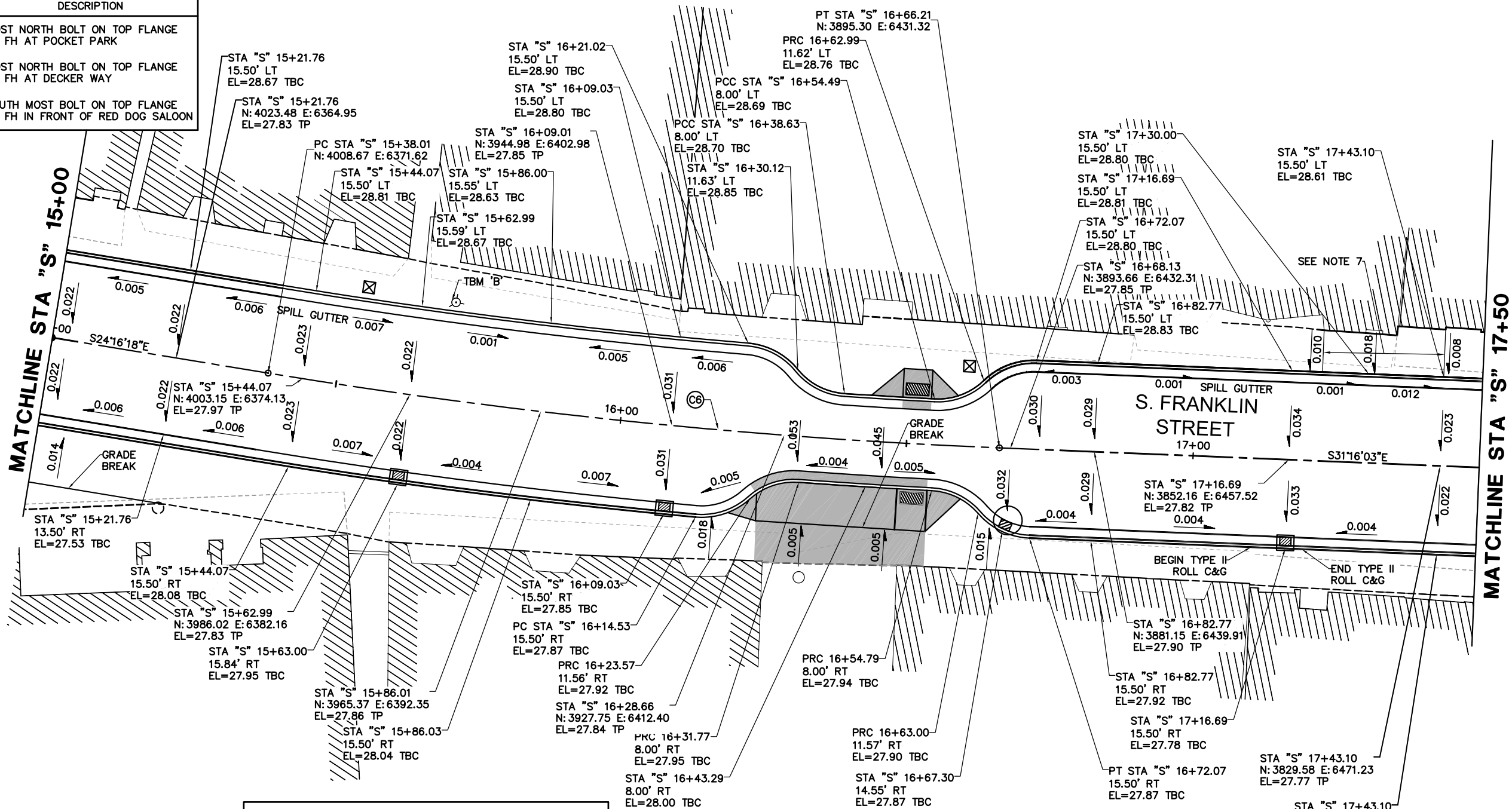
CITY/BOROUGH OF JUNEAU
 ALASKA'S CAPITAL CITY
DEPARTMENT OF ENGINEERING

DOWNTOWN STREET IMPROVEMENTS - PHASE I
 CONTRACT NO. BE17-137

HORIZONTAL AND VERTICAL CONTROL CURB AND GUTTER LAYOUT AND GRADES
 STA "S" 12+50 TO STA "S" 15+00

SHEET NO.
C.202
 14 of 39

VERTICAL CONTROL		
TBM No.	ELEVATION	DESCRIPTION
A	30.14	MOST NORTH BOLT ON TOP FLANGE OF FH AT POCKET PARK
B	27.99	MOST NORTH BOLT ON TOP FLANGE OF FH AT DECKER WAY
C	27.91	SOUTH MOST BOLT ON TOP FLANGE OF FH IN FRONT OF RED DOG SALOON

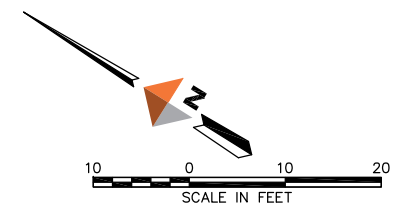


CURVE TABLE					
Curve #	Length	Radius	Delta	Chord Direction	Chord Length
C6	128.21	1050.00	7.00	S27° 46' 10"E	128.13

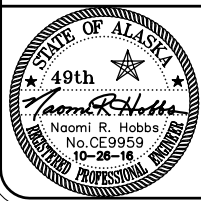
*UNLESS CURVE INFORMATION IS PROVIDED ABOVE ALL CURB RADII SHALL BE 12.0-FT TO FACE OF CURB.

NOTES

- STATIONS, OFFSETS, ELEVATIONS AND CURVE INFORMATION ALONG CURBING ARE TO TOP BACK OF CURB (TBC), UNLESS OTHERWISE NOTED. TOP OF PAVEMENT ARE TP. TOP OF SIDEWALK ARE TSW. TOP BACK OF VALLEY GUTTER ARE TBG.
- SEE TYPICAL SECTIONS FOR OTHER GRADING INFORMATION.
- ESTABLISH VERTICAL CURVES AS NECESSARY FOR A SMOOTH ALIGNMENT (NO ANGLE POINTS) BY VISUALLY ALIGNING TOP OF CURB THROUGH VERTICAL CONTROL POINTS.
- SIDEWALK CROSS-SLOPES GENERALLY VARY BETWEEN 0.5% AND 2.0%. UNLESS OTHERWISE INDICATED SIDEWALK CROSS-SLOPES SHALL BE A STRAIGHT GRADE FROM THE TOP BACK OF CURB AND THE POINT AT WHICH THE EXISTING SIDEWALK MEETS BUILDING FACES AND DOOR ALCOVES.
- SLOPE ARROWS ARE ONLY INTENDED TO DEPICT THE GENERAL DIRECTION OF FLOW. GRADING SHALL BE BASED ON THE LAYOUT ELEVATIONS PROVIDED.
- SHADED CURB AND GUTTER REPRESENTS FULLY DEPRESSED CURB CUTS. SHADED SIDEWALK REPRESENTS 6-INCH CONCRETE THICKNESS.
- REMOVE THE EXISTING GRADE BREAK IN FRONT OF THE DOOR AT 17+31 LT. TRANSITION BACK OF SIDEWALK UP TO THE THRESHOLD ON EACH SIDE OF THE DOOR AS SHOWN.



C:\Civil_3D\Projects\22\70878-01\Civil\SC14-CT-GR-70878.dwg 2016-10-27 08:32:13



DOWL
 Consulting Engineers • Land Surveyors • Construction Administration
 5368 Commercial Blvd.
 Juneau, Alaska 99801
 (907) 780-3533 Office
 (907) 780-3535 Fax
 JOB No. J70878 DRAWN BY: STAFF DESIGNED BY: T. LOCKHART CHECKED BY: N. HOBBS DATE: OCT. 2016

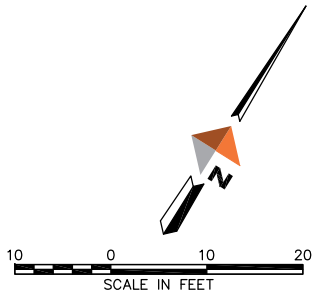
CITY/BOROUGH OF JUNEAU
 ALASKA'S CAPITAL CITY
DEPARTMENT OF ENGINEERING

DOWNTOWN STREET IMPROVEMENTS - PHASE I
CONTRACT NO. BE17-137

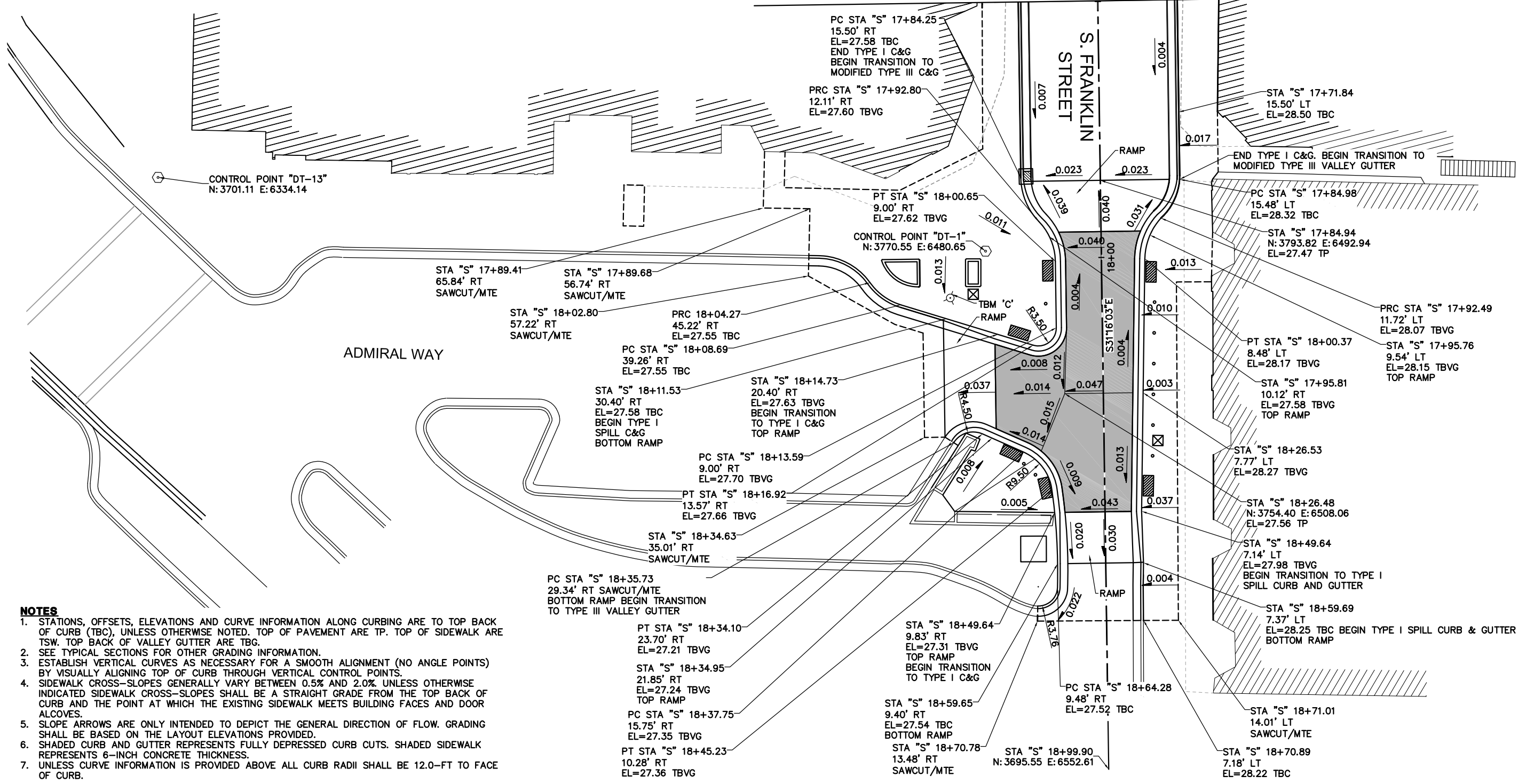
HORIZONTAL AND VERTICAL CONTROL CURB AND GUTTER LAYOUT AND GRADES
STA "S" 15+00 TO STA "S" 17+50

SHEET NO.
C.203
 15 of 39

VERTICAL CONTROL		
TBM No.	ELEVATION	DESCRIPTION
A	30.14	MOST NORTH BOLT ON TOP FLANGE OF FH AT POCKET PARK
B	27.99	MOST NORTH BOLT ON TOP FLANGE OF FH AT DECKER WAY
C	27.91	SOUTH MOST BOLT ON TOP FLANGE OF FH IN FRONT OF RED DOG SALOON

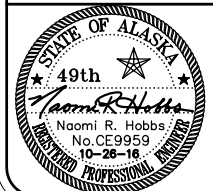


MATCHLINE STA "S" 17+50



- NOTES**
1. STATIONS, OFFSETS, ELEVATIONS AND CURVE INFORMATION ALONG CURBING ARE TO TOP BACK OF CURB (TBC), UNLESS OTHERWISE NOTED. TOP OF PAVEMENT ARE TP. TOP OF SIDEWALK ARE TSW. TOP BACK OF VALLEY GUTTER ARE TBG.
 2. SEE TYPICAL SECTIONS FOR OTHER GRADING INFORMATION.
 3. ESTABLISH VERTICAL CURVES AS NECESSARY FOR A SMOOTH ALIGNMENT (NO ANGLE POINTS) BY VISUALLY ALIGNING TOP OF CURB THROUGH VERTICAL CONTROL POINTS.
 4. SIDEWALK CROSS-SLOPES GENERALLY VARY BETWEEN 0.5% AND 2.0%. UNLESS OTHERWISE INDICATED SIDEWALK CROSS-SLOPES SHALL BE A STRAIGHT GRADE FROM THE TOP BACK OF CURB AND THE POINT AT WHICH THE EXISTING SIDEWALK MEETS BUILDING FACES AND DOOR ALCOVES.
 5. SLOPE ARROWS ARE ONLY INTENDED TO DEPICT THE GENERAL DIRECTION OF FLOW. GRADING SHALL BE BASED ON THE LAYOUT ELEVATIONS PROVIDED.
 6. SHADED CURB AND GUTTER REPRESENTS FULLY DEPRESSED CURB CUTS. SHADED SIDEWALK REPRESENTS 6-INCH CONCRETE THICKNESS.
 7. UNLESS CURVE INFORMATION IS PROVIDED ABOVE ALL CURB RADII SHALL BE 12.0-FT TO FACE OF CURB.

C:\Civil_3D\Projects\22\70878-01\Civil\SC14-CT-GR-70878.dwg 2016-10-26 17:25:42



DOWL
 Consulting Engineers • Land Surveyors • Construction Administration
 5368 Commercial Blvd.
 Juneau, Alaska 99801
 (907) 780-3533 Office
 (907) 780-3535 Fax
 JOB No. J70878 DRAWN BY: STAFF DESIGNED BY: T. LOCKHART CHECKED BY: N. HOBBS DATE: OCT. 2016

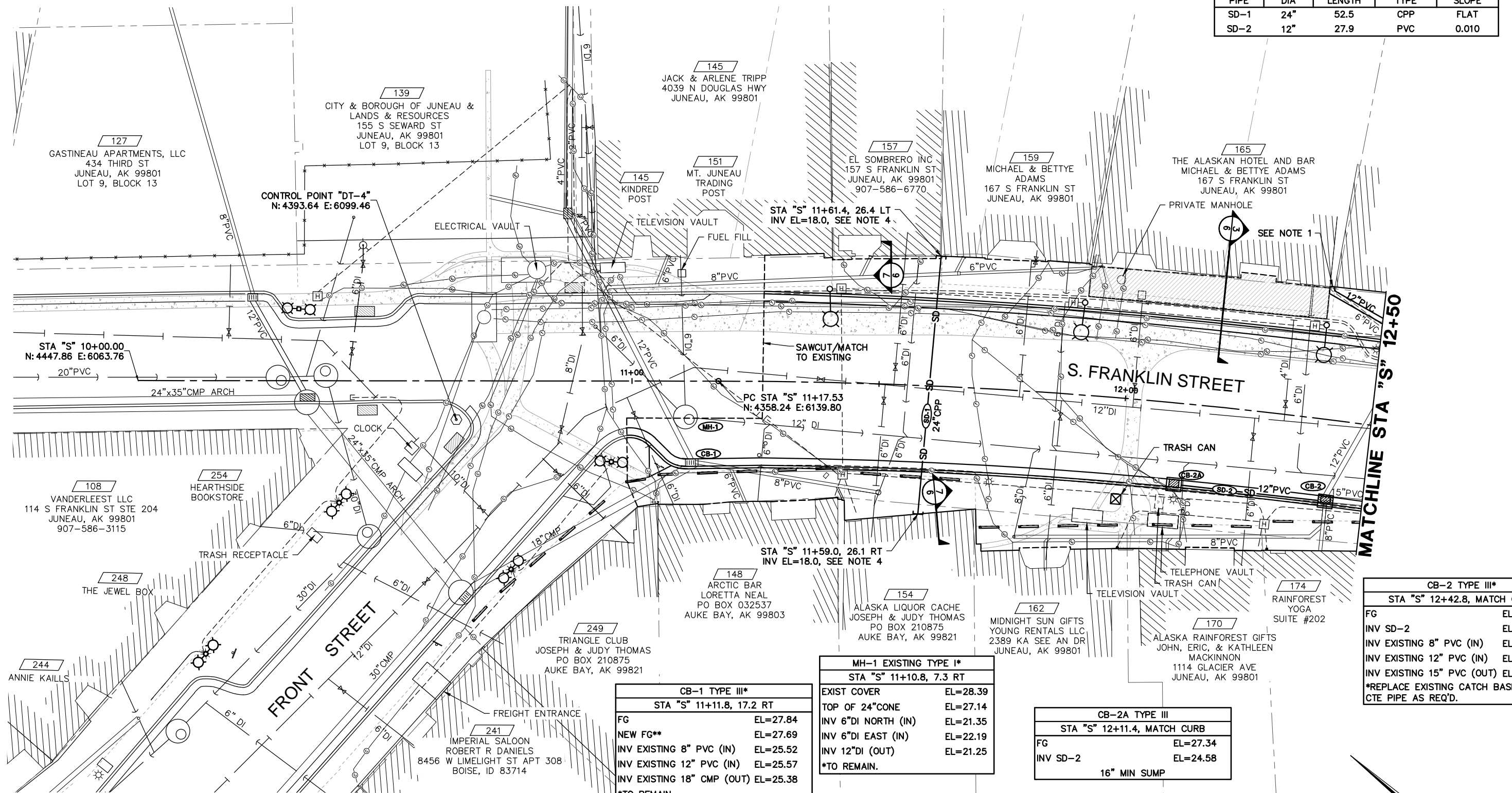
CITY/BOROUGH OF JUNEAU
 ALASKA'S CAPITAL CITY
DEPARTMENT OF ENGINEERING

DOWNTOWN STREET IMPROVEMENTS - PHASE I
CONTRACT NO. BE17-137

HORIZONTAL AND VERTICAL CONTROL CURB AND GUTTER LAYOUT AND GRADES
STA "S" 17+50 TO EOP

SHEET NO.
C.204
 16 of 39

PIPE SUMMARY - STORM DRAINAGE				
PIPE	DIA	LENGTH	TYPE	SLOPE
SD-1	24"	52.5	CPP	FLAT
SD-2	12"	27.9	PVC	0.010



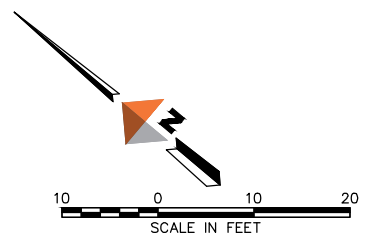
CB-2 TYPE III*	
STA "S" 12+42.8, MATCH CURB	
FG	EL=27.68
INV SD-2	EL=24.30
INV EXISTING 8" PVC (IN)	EL=24.27
INV EXISTING 12" PVC (IN)	EL=24.30
INV EXISTING 15" PVC (OUT)	EL=24.19
*REPLACE EXISTING CATCH BASIN AND CTE PIPE AS REQ'D.	

MH-1 EXISTING TYPE I*	
STA "S" 11+10.8, 7.3 RT	
EXIST COVER	EL=28.39
TOP OF 24" CONE	EL=27.14
INV 6" DI NORTH (IN)	EL=21.35
INV 6" DI EAST (IN)	EL=22.19
INV 12" DI (OUT)	EL=21.25
*TO REMAIN.	

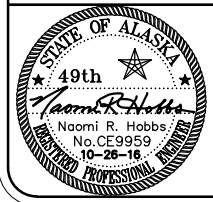
CB-2A TYPE III	
STA "S" 12+11.4, MATCH CURB	
FG	EL=27.34
INV SD-2	EL=24.58
16" MIN SUMP	

CB-1 TYPE III*	
STA "S" 11+11.8, 17.2 RT	
FG	EL=27.84
NEW FG**	EL=27.69
INV EXISTING 8" PVC (IN)	EL=25.52
INV EXISTING 12" PVC (IN)	EL=25.57
INV EXISTING 18" CMP (OUT)	EL=25.38
*TO REMAIN.	
**LOWER EXISTING FRAME AND GRATE	

- NOTES:**
- CONNECT TO EXISTING INLET STRUCTURE.
 - REPLACE ALL WATER MAIN AND SERVICE VALVE BOXES WITHIN THE PROJECT LIMITS.
 - REPLACE ALL STORM AND SEWER SERVICE CLEANOUT FRAMES AND COVERS WITHIN THE PROJECT LIMITS.
 - FIELD VERIFY DEPTH (TOP AND BOTTOM) OF EXISTING CONCRETE ENCASED DUCT BANK AT APPROXIMATE STA 11+60 13' LT BEFORE BEGINNING INSTALLATION OF SD-1. REPORT FINDINGS TO ENGINEER. SEAL EACH END OF PIPE WITH A REMOVABLE PLUG. BACKFILL WITH FLOWABLE FILL UNDER EXISTING CONCRETE-ENCASED DUCT BANK AS REQUIRED.



C:\Civil_3D\Projects\22\70878-01\Civil\MCI4-CT-BA-70878.dwg 2016-10-27 10:39:11



DOWL
 Consulting Engineers • Land Surveyors • Construction Administration
 5368 Commercial Blvd.
 Juneau, Alaska 99801
 (907) 780-3533 Office
 (907) 780-3535 Fax
 JOB No. J70878 DRAWN BY: STAFF DESIGNED BY: T. LOCKHART CHECKED BY: N. HOBBS DATE: OCT. 2016

CITY/BOROUGH OF JUNEAU
 ALASKA'S CAPITAL CITY
DEPARTMENT OF ENGINEERING

DOWNTOWN STREET IMPROVEMENTS - PHASE I
CONTRACT NO. BE17-137

PLAN - S. FRANKLIN STREET
BOP TO STA "S" 12+50

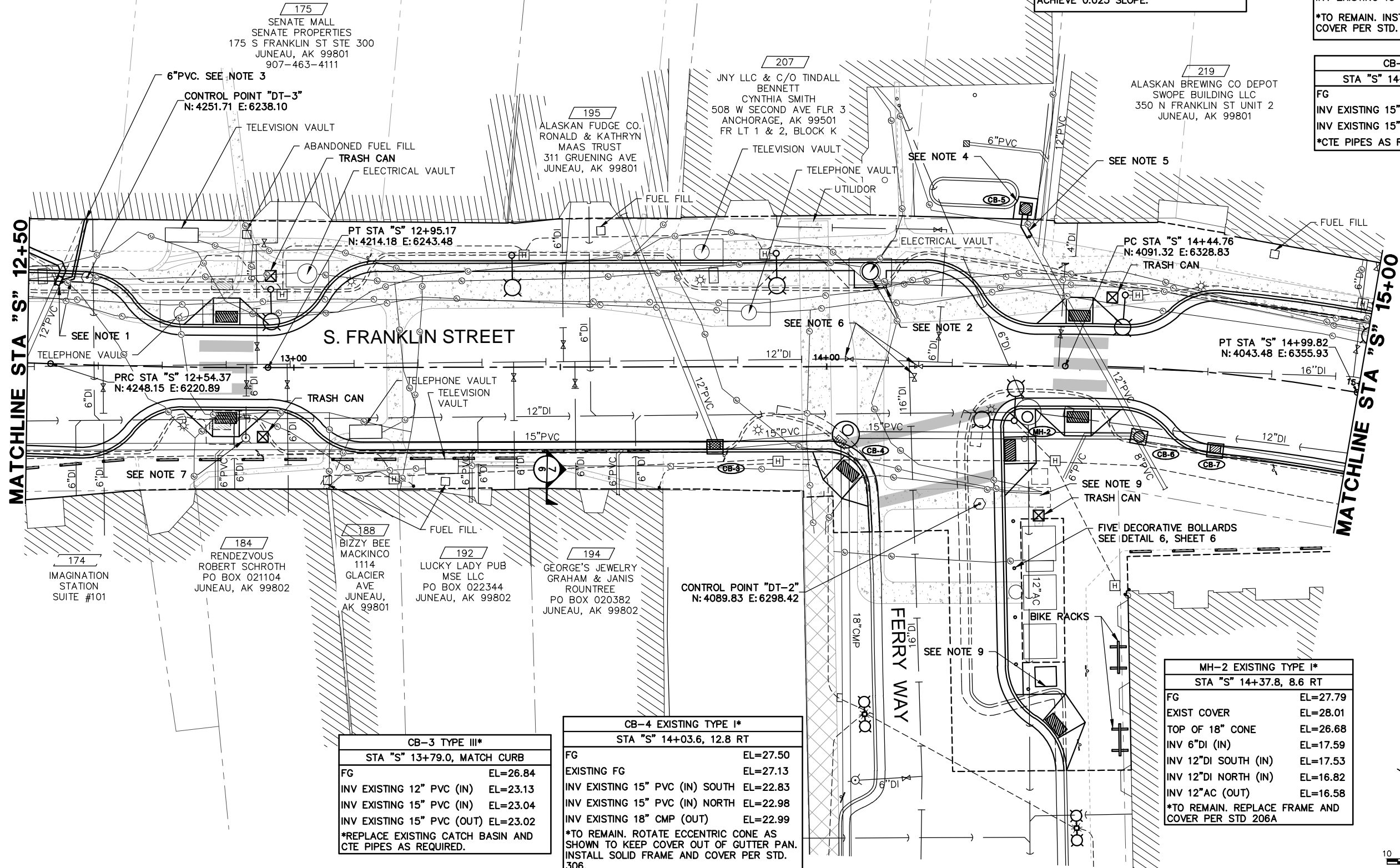
NOTES:

1. REPLACE EXISTING 12"x6" WYE AND REVERSE SERVICE SIZES AS SHOWN.
2. REPLACE 3'-8" ELECTRICAL FRAME AND COVER WITH A 3'-0" COVER AND INSTALL CONCRETE COLLAR AS SHOWN.
3. CONNECT TO EXISTING WITH ALL ADAPTERS, ELBOWS, AND OTHER FITTINGS NECESSARY TO CONNECT TO DISSIMILAR PIPE SIZES, MATERIALS AND DEPTHS.
4. PROTECT IN PLACE OR REMOVE AND REPLACE PLANTER WALL AS REQUIRED FOR AREA DRAIN INSTALLATION.
5. EXTEND 12" PVC TO CB-5.
6. CONNECT THE THREE MAINLINE VALVES TO TWO 18# ANODE BAGS PER C.104
7. CLEAN AND REPAINT FIRE HYDRANT AND INSTALL STORZ COUPLING.
8. REPLACE ALL WATER MAIN AND SERVICE VALVE BOXES WITHIN THE PROJECT LIMITS.
9. EXISTING TRANSFORMER TO BE RELOCATED BY AEL&P FROM STA 14+40 24'RT TO 14+40 58'RT.
10. REPLACE ALL STORM AND SEWER SERVICE CLEANOUT FRAMES AND COVERS WITHIN THE PROJECT LIMITS.

CB-5 TYPE III W/ AREA DRAIN*	
STA "S" 14+37.4, 29.6 LT	
FG	EL=28.24
INV 12" PVC	EL=24.86**
*INSTALL IN ACCORDANCE WITH STD 309, EXCEPT THAT OVERALL DIMENSIONS SHALL BE APPROXIMATELY 4'-FTX4'-FT.	
**ADJUST INVERT AS REQUIRED TO ACHIEVE 0.025 SLOPE.	

CB-6 TYPE III*	
STA "S" 14+59.3, 13.0 RT	
FG	EL=27.77
EXISTING FG	EL=26.85
INV EXISTING 6" PVC (IN)	EL=24.91
INV EXISTING 15" PVC (IN)	EL=23.91
INV EXISTING 12" PVC (IN)	EL=23.74
INV EXISTING 15" PVC (OUT)	EL=23.50
*TO REMAIN. INSTALL SOLID FRAME AND COVER PER STD. 306.	

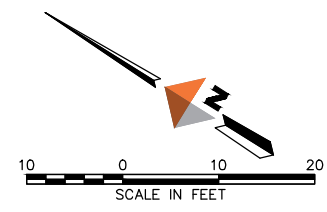
CB-7 TYPE III*	
STA "S" 14+74.3 MATCH CURB	
FG	EL=27.47
INV EXISTING 15" PVC (IN)	EL=23.92
INV EXISTING 15" PVC (OUT)	EL=23.92
*CTE PIPES AS REQUIRED	



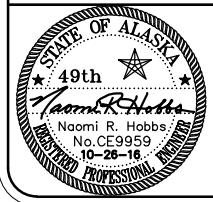
CB-3 TYPE III*	
STA "S" 13+79.0, MATCH CURB	
FG	EL=26.84
INV EXISTING 12" PVC (IN)	EL=23.13
INV EXISTING 15" PVC (IN)	EL=23.04
INV EXISTING 15" PVC (OUT)	EL=23.02
*REPLACE EXISTING CATCH BASIN AND CTE PIPES AS REQUIRED.	

CB-4 EXISTING TYPE I*	
STA "S" 14+03.6, 12.8 RT	
FG	EL=27.50
EXISTING FG	EL=27.13
INV EXISTING 15" PVC (IN) SOUTH	EL=22.83
INV EXISTING 15" PVC (IN) NORTH	EL=22.98
INV EXISTING 18" CMP (OUT)	EL=22.99
*TO REMAIN. ROTATE ECCENTRIC CONE AS SHOWN TO KEEP COVER OUT OF GUTTER PAN. INSTALL SOLID FRAME AND COVER PER STD. 306.	

MH-2 EXISTING TYPE I*	
STA "S" 14+37.8, 8.6 RT	
FG	EL=27.79
EXIST COVER	EL=28.01
TOP OF 18" CONE	EL=26.68
INV 6" DI (IN)	EL=17.59
INV 12" DI SOUTH (IN)	EL=17.53
INV 12" DI NORTH (IN)	EL=16.82
INV 12" AC (OUT)	EL=16.58
*TO REMAIN. REPLACE FRAME AND COVER PER STD 206A	



C:\Civil_3D\Projects\22\70878-01\Civil\MCI14-CT-BA-70878.dwg 2016-10-27 10:39:12



DOWL
 Consulting Engineers • Land Surveyors • Construction Administration
 5368 Commercial Blvd.
 Juneau, Alaska 99801
 (907) 780-3533 Office
 (907) 780-3535 Fax
 JOB No. J70878 DRAWN BY: STAFF DESIGNED BY: T. LOCKHART CHECKED BY: N. HOBBS DATE: OCT. 2016

CITY/BOROUGH OF JUNEAU
 ALASKA'S CAPITAL CITY
DEPARTMENT OF ENGINEERING

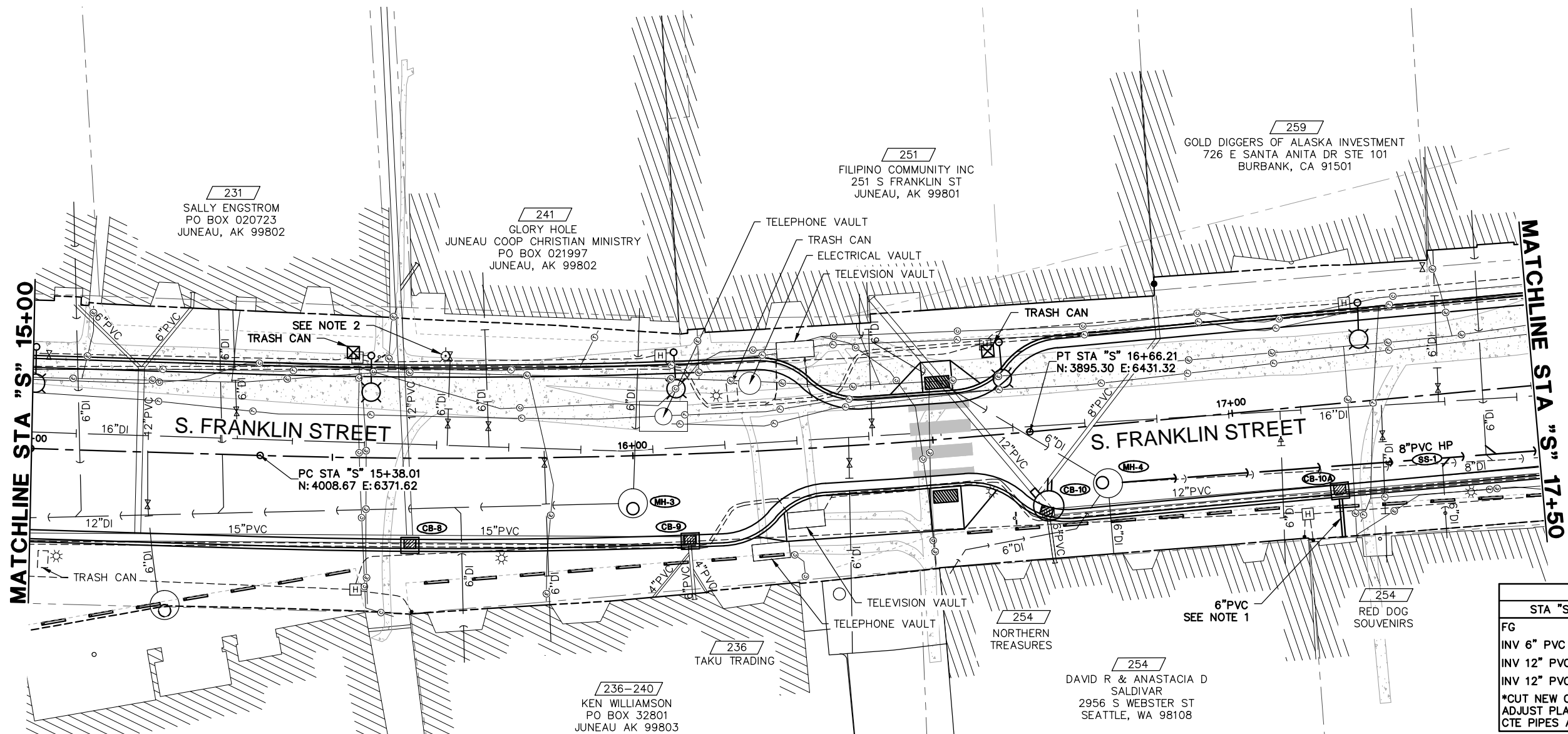
DOWNTOWN STREET IMPROVEMENTS - PHASE I
CONTRACT NO. BE17-137

PLAN - S. FRANKLIN STREET
STA "S" 12+50 TO STA "S" 15+00

SHEET NO.
C.302
 18 of 39

NOTES:

- CONNECT TO EXISTING GARAGE DRAIN WITH ALL ADAPTERS, ELBOWS, AND OTHER FITTINGS NECESSARY TO CONNECT TO DISSIMILAR PIPE SIZES, MATERIALS AND DEPTHS.
- CLEAN AND REPAINT FIRE HYDRANT AND INSTALL STORZ COUPLING.
- REPLACE ALL WATER MAIN AND SERVICE VALVE BOXES WITHIN THE PROJECT LIMITS.
- REPLACE ALL STORM AND SEWER SERVICE CLEANOUT FRAMES AND COVERS WITHIN THE PROJECT LIMITS.



MATCHLINE STA "S" 15+00

MATCHLINE STA "S" 17+50

CB-8 TYPE III*	
STA "S" 15+63.0, MATCH CURB	
FG	EL=27.39
INV 12" PVC (IN)	EL=24.23
INV 15" PVC (IN)	EL=24.11
INV 15" PVC (OUT)	EL=24.10
*CUT NEW CB INTO EXISTING PIPES. ADJUST PLAN INVERTS AS REQUIRED. CTE PIPES AS REQUIRED.	

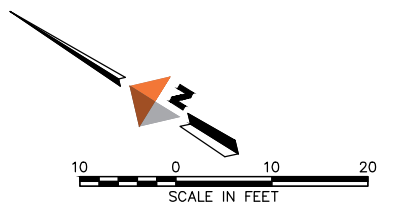
CB-9 TYPE III*	
STA "S" 16+09.0, MATCH CURB	
FG	EL=27.30
EXISTING FG	EL=27.00
INV 6" PVC (IN)	EL=25.13
INV 15" PVC (OUT)	EL=24.46
*REPLACE EXISTING CATCH BASIN WITH NEW AND CTE PIPES AS REQ'D.	

MH-3 EXISTING TYPE I*	
STA "S" 15+99.8, 7.9 RT	
FG	EL=27.59
EXIST COVER	EL=27.74
TOP OF CONE	EL=25.87
INV 6"DI (IN)	EL=20.07
INV 12"DI (OUT)	EL=19.95
*TO REMAIN. INSTALL SOLID FRAME AND COVER PER STD. 306.	

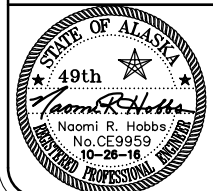
MH-4 EXISTING TYPE I*	
STA "S" 16+78.4, 9.7 RT	
FG	EL=27.56
EXIST COVER	EL=27.56
TOP OF 24" CONE	EL=26.04
INV 6"DI NORTH (IN)	EL=22.27
INV 6"DI SOUTHWEST (IN)	EL=22.28
INV 6"DI WEST (IN)	EL=21.27
INV SS-1 (OUT)**	EL=20.97
*TO REMAIN. INSTALL SOLID FRAME AND COVER PER STD. 306.	
**REPLACE EXISTING 8"DI WITH SS-1 AT SAME INVERT ELEVATION.	

CB-10 TYPE I*	
STA "S" 16+68.2, MATCH CURB	
FG	EL=27.30
EXISTING FG	EL=27.13
INV 6" PVC (IN)	EL=25.18
INV 12" PVC (IN)**	EL=25.07
INV 8" PVC (IN)**	EL=25.07
INV 12" PVC (OUT)	EL=24.90
*REPLACE EXISTING CATCH BASIN WITH NEW TYPE I MH AND CTE PIPES AS REQ'D.	
**REMOVE THE EXISTING 12"x8" WYE AND CONNECT EACH LINE WITH A SEPARATE MANHOLE PENETRATION.	

CB-10A TYPE III*	
STA "S" 17+16.7, MATCH CURB	
FG	EL=27.23
INV 6" PVC (IN)	EL=25.78
INV 12" PVC (IN)	EL=24.66
INV 12" PVC (OUT)	EL=24.65
*CUT NEW CB INTO EXISTING PIPES. ADJUST PLAN INVERTS AS REQUIRED. CTE PIPES AS REQUIRED.	



C:\Civil_3D\Projects\22\70878-01\Civil\MCI14-CT-BA-70878.dwg 2016-10-26 16:15:11



DOWL
 Consulting Engineers • Land Surveyors • Construction Administration

5368 Commercial Blvd.
 Juneau, Alaska 99801
 (907) 780-3533 Office
 (907) 780-3535 Fax

JOB No. J70878 DRAWN BY: STAFF DESIGNED BY: T. LOCKHART CHECKED BY: N. HOBBS DATE: OCT. 2016

CITY/BOROUGH OF JUNEAU
 ALASKA'S CAPITAL CITY

DEPARTMENT OF ENGINEERING

DOWNTOWN STREET IMPROVEMENTS - PHASE I
CONTRACT NO. BE17-137

PLAN - S. FRANKLIN STREET
STA "S" 15+00 TO STA "S" 17+50

SHEET NO.
C.303
 19 of 39