

**CAPITAL TRANSIT
VALLEY TRANSFER STATION**

VOLUME III of III

Contract No. BE20-268

File No. 1874



ENGINEERING DEPARTMENT

CAPITAL TRANSIT VALLEY TRANSFER STATION CONTRACT NO. BE20-268

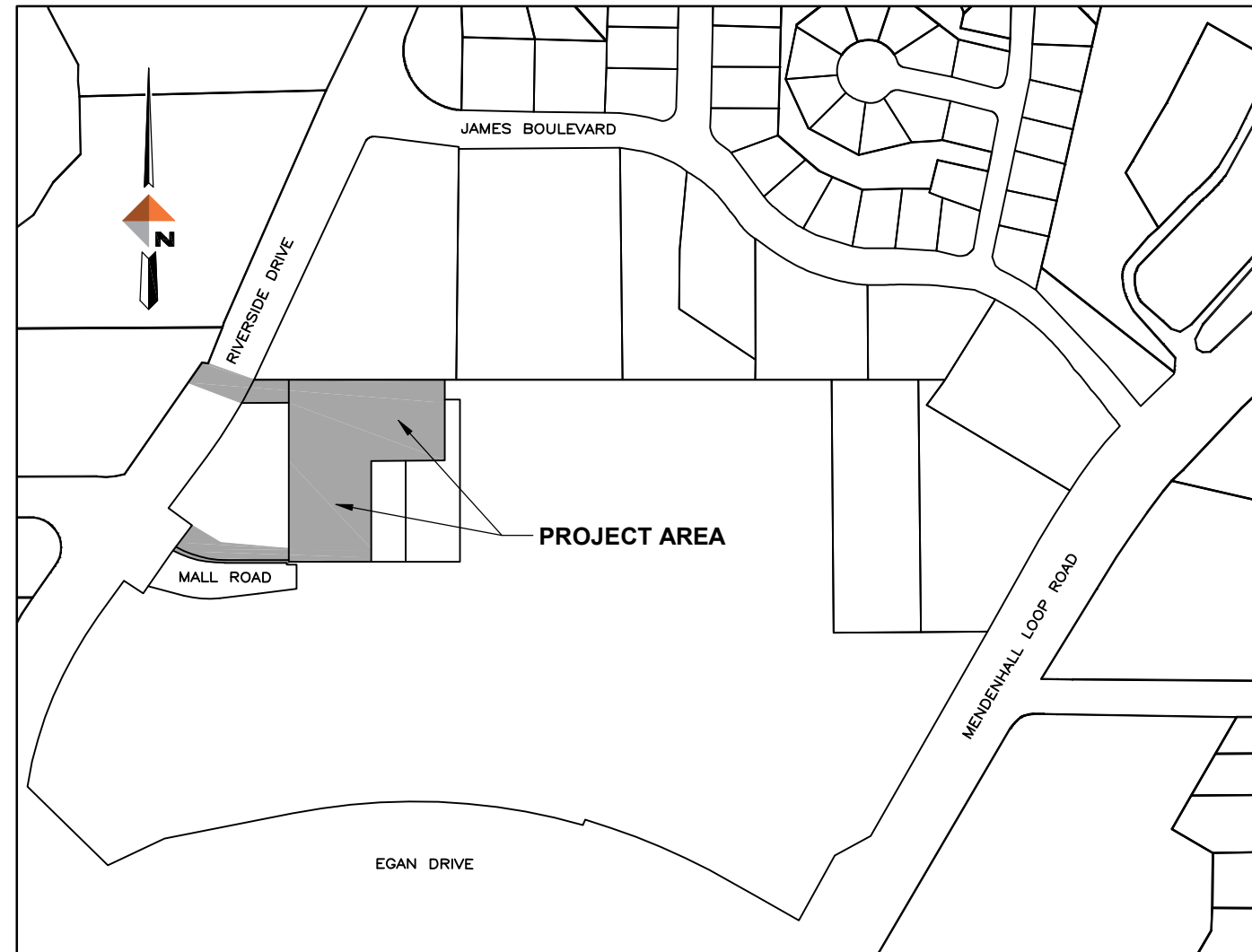
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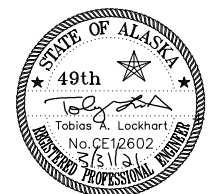
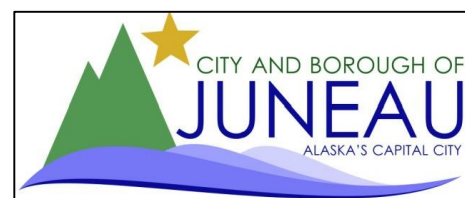
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PREPARED BY:



PREPARED FOR:



PROJECT 71014.01
DATE 03/31/2021

SHEET

G-000

LEGEND

DESCRIPTION	EXISTING	REMOVE	PROPOSED
ADA TILE			
AREA DRAIN			
BURIED ELECTRICAL UTILITIES			
CATCH BASIN			
CONTROL POINT			
CURB & GUTTER			
DITCH CENTERLINE			
EARTHEN BERM			
EDGE OF ASPHALT			
FENCE			
FIRE HYDRANT			
GARBAGE CAN			
GRADE BREAK			
HEADWALL			
LIGHT POLE			
OVERHEAD UTILITIES			
PROJECT CONTROL LINE			
PROPERTY LINE			
ROCK CHIPS			
SANITARY SEWER FORCE MAIN			
SANITARY SEWER GRAVITY PIPE			
SANITARY SEWER MANHOLE			
SAWCUT			
SEEDING AREA			
SIDEWALK RAMP			
SIGN			
STORM DRAIN PIPE			
SURVEY MONUMENT- REBAR W/ PLASTIC CAP			
TREE			
VEGETATION LIMITS			
WATER LINE PIPE			
WATER VALVE BOX			

ABBREVIATIONS

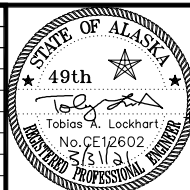
AC	ASPHALT CONCRETE
ADOT&PF	ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
BOP	BEGINNING OF PROJECT
CB	CATCH BASIN
CMP	CORRUGATED METAL PIPE
CPP	CORRUGATED POLYETHYLENE PIPE
CONC	CONCRETE
CTE	CONNECT TO EXISTING
DI	DUCTILE IRON
DIA	DIAMETER
EOP	END OF PROJECT
FL	FLOW LINE
FG	FINISHED GRADE
GV	GATE VALVE
INV	INVERT
LG	LIP OF GUTTER
LT	LEFT
MH	MANHOLE
MN	MAGNETIC NAIL
MTE	MATCH TO EXISTING
NO	NUMBER
NTS	NOT TO SCALE
PC	POINT OF CURVATURE
PT	POINT OF TANGENCY
PVI	POINT OF VERTICAL INTERSECTION
POC	POINT ON CURVE
PCC	POINT OF COMPOUND CURVE
PVC	POLYVINYL CHLORIDE PIPE
ROW	RIGHT-OF-WAY
RT	RIGHT
SHLD	SHOULDER
STA	STATION
STD	STANDARD
TBC	TOP BACK OF CURB
TBG	TOP BACK OF GUTTER
TP	TOP OF PAVEMENT
TRMP	TOP OF RAMP
TSW	TOP OF SIDEWALK
TTCP	TEMPORARY TRAFFIC CONTROL PLAN
UD	UNDER DRAIN

ABBREVIATIONS TO BE USED WITHOUT PERIODS

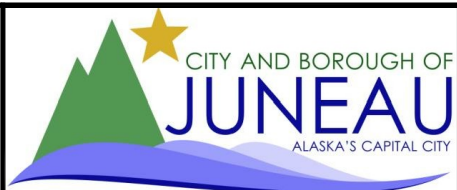
GENERAL NOTES

- THE 4TH EDITION OF THE CBJ STANDARD DETAILS, DATED AUGUST 14 2011, IS MADE PART OF THIS CONTRACT, WITH CURRENT REVISIONS AS APPLICABLE.
- EXISTING PIPE LOCATIONS ARE DERIVED FROM CBJ AS-BUILTS OR FIELD LOCATED. ACTUAL LOCATIONS MAY VARY FROM THOSE SHOWN. FOR UNDERGROUND UTILITY LOCATES CALL "DIAL BEFORE YOU DIG" AT 586-1333 AND "ALASKA DIGLINE" AT 811 PRIOR TO EXCAVATION.
- CONTRACTOR SHALL ENSURE UNINTERRUPTED GARBAGE PICKUP AND DAILY MAIL SERVICE TO ALL BUSINESSES EFFECTED BY THIS PROJECT.
- GRADING AND LAYOUT INFORMATION IS SUBJECT TO MINOR REVISIONS BY THE ENGINEER.
- LOCATION OF CULVERTS AND CULVERT LENGTHS ARE SUBJECT TO MINOR REVISIONS BY THE ENGINEER.
- THE CONTRACTOR SHALL NOTIFY CBJ WATER UTILITIES (LONI VANKIRK AT 723-4975) OF PROPOSED WATER SERVICE CONNECTION AT RIVERSIDE DRIVE ATLEAST 7 DAYS PRIOR TO THE WORK AND SHALL COORDINATE THE LIVE TAP WITH WITH THE WATER UTILITY. THE RIVERSIDE DRIVE WATER MAIN SHALL NOT BE TURNED OFF DURING THE WORK.
- PROPERTY LINE LOCATIONS USED IN THESE PLANS ARE DERIVED FROM RECORD PLATS AND DO NOT REPRESENT A 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.
- ALL ITEMS DESIGNATED TO BE REMOVED SHALL BE DISPOSED OF AT AN APPROVED DISPOSAL SITE, EXCEPT AS NOTED IN THE CONTRACT DOCUMENTS.
- CONTRACTOR SHALL REFERENCE ALL EXISTING PROPERTY CORNER MONUMENTS (I.E. REBARS, CONCRETE NAILS, BRASS CAP MONUMENT AND ETC.) PRIOR TO CONSTRUCTION, REMONUMENT AFTER SURFACING IS REPLACED, AND SUBMIT A RECORD OF MONUMENT TO THE ENGINEER. 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, AND GCI WILL BE CONDUCTING 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.
- THE CONTRACTOR SHALL RESTRICT ITS COMPACTION AND OTHER VIBRATION INDUCING OPERATIONS AS NECESSARY TO ENSURE NO DAMAGE OCCURS TO ADJACENT BUILDINGS OR STRUCTURES. REFER TO SECTION 01530, ARTICLE 1.7 FOR FURTHER REQUIREMENTS.
- THE CONTRACTOR SHALL NOT STORE MATERIALS OR EQUIPMENT, OR OPERATE EQUIPMENT WITH ITS TRACKS OR WHEELS PLACED ON PRIVATE PROPERTY, WITHOUT WRITTEN APPROVAL OF THE PROPERTY OWNER.
- UNLESS APPROVED BY ASIANA GARDEN, NO WORK SHALL BE PERFORMED WITHIN THE PARKING LOT AND DRIVEWAY ADJACENT TO MALL ROAD BETWEEN THE NORMAL BUSINESS HOURS OF 11AM AND 9PM M-F, 12PM-9PM SATURDAY, OR 12PM-8PM SUNDAY. A MINIMUM DRIVEWAY WIDTH OF 20-FT SHALL BE MAINTAINED AT ALL TIMES UNLESS APPROVED BY THE OWNER. A MINIMUM OF 7 DAYS NOTICE SHALL BE PROVIDED BEFORE ANY WORK IS PERFORMED.
- UNLESS APPROVED BY NAPA, A MINIMUM OF 48 HOURS NOTICE SHALL BE REQUIRED BEFORE COMMENCEMENT OF WORK ADJACENT TO THEIR BUILDING.
- "JUMPING JACK" OR SIMILAR TYPE COMPACTORS SHALL BE USED TO THOROUGHLY COMPACT ALL LAYERS OF MATERIAL AROUND WATER VALVE BOXES, CATCH BASINS, MANHOLES AND OTHER STRUCTURES.
- FOR WORK REQUIRED BETWEEN 10:00PM AND 7:00AM, A CBJ NOISE PERMIT WILL BE REQUIRED. CONTACT CHARLIE FORD AT CBJ COMMUNITY DEVELOPMENT (586-0767) FOR APPROVAL.

REVISIONS			
REV	DATE	DESCRIPTION	BY



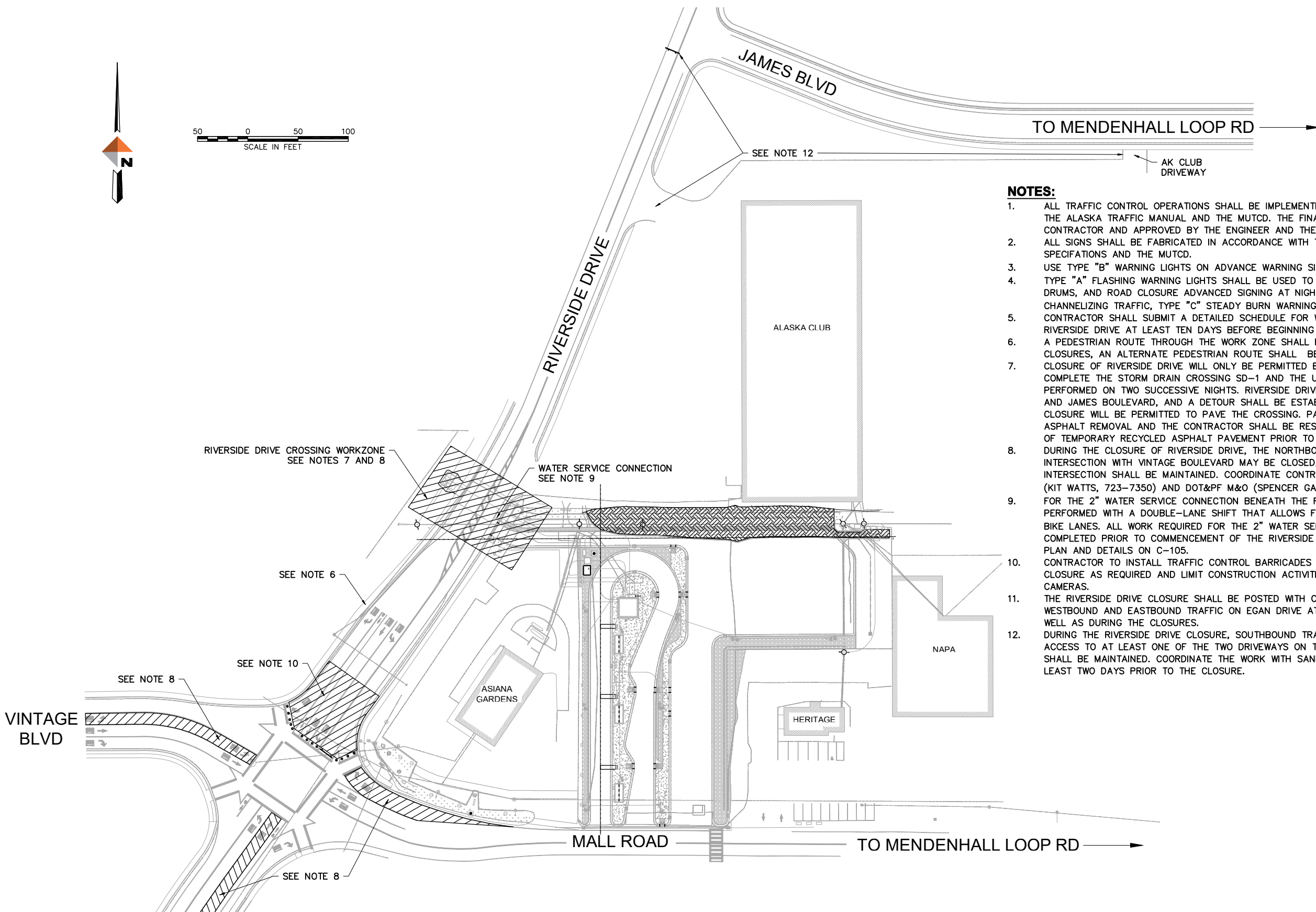
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CAPITAL TRANSIT VALLEY TRANSFER STATION
CONTRACT NO. BE20-268
LEGEND, ABBREVIATIONS, AND GENERAL NOTES

PROJECT	71014.01
DATE	3/31/2021
SHEET	G-001

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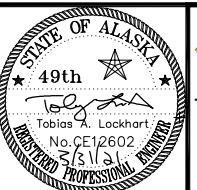
NOTES:

1. ALL TRAFFIC CONTROL OPERATIONS SHALL BE IMPLEMENTED IN ACCORDANCE WITH THE LATEST EDITION OF THE ALASKA TRAFFIC MANUAL AND THE MUTCD. THE FINAL TTC PLANS SHALL BE COMPLETED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER AND THE DOT&PF.
2. ALL SIGNS SHALL BE FABRICATED IN ACCORDANCE WITH THE LATEST EDITIONS OF THE ALASKA SIGN SPECIFICATIONS AND THE MUTCD.
3. USE TYPE "B" WARNING LIGHTS ON ADVANCE WARNING SIGNS.
4. TYPE "A" FLASHING WARNING LIGHTS SHALL BE USED TO MARK TYPE III BARRICADES, TYPE II BARRICADES, DRUMS, AND ROAD CLOSURE ADVANCED SIGNING AT NIGHT. WHEN BARRICADES OR DRUMS ARE USED FOR CHANNELIZING TRAFFIC, TYPE "C" STEADY BURN WARNING LIGHTS SHALL BE USED.
5. CONTRACTOR SHALL SUBMIT A DETAILED SCHEDULE FOR WORK TO BE COMPLETED WITHIN OR ADJACENT TO RIVERSIDE DRIVE AT LEAST TEN DAYS BEFORE BEGINNING THE WORK.
6. A PEDESTRIAN ROUTE THROUGH THE WORK ZONE SHALL BE MAINTAINED AT ALL TIMES. FOR SIDEWALK CLOSURES, AN ALTERNATE PEDESTRIAN ROUTE SHALL BE DELINEATED.
7. CLOSURE OF RIVERSIDE DRIVE WILL ONLY BE PERMITTED BETWEEN THE HOURS OF 8PM AND 6AM. WORK TO COMPLETE THE STORM DRAIN CROSSING SD-1 AND THE UNDERGROUND UTILITY CROSSING SHALL BE PERFORMED ON TWO SUCCESSIVE NIGHTS. RIVERSIDE DRIVE MAY BE CLOSED BETWEEN VINTAGE BOULEVARD AND JAMES BOULEVARD, AND A DETOUR SHALL BE ESTABLISHED VIA MENDENHALL LOOP ROAD. ONE FINAL CLOSURE WILL BE PERMITTED TO PAVE THE CROSSING. PAVING SHALL BE COMPLETED WITHIN 7 DAYS OF ASPHALT REMOVAL AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLATION AND MAINTENANCE OF TEMPORARY RECYCLED ASPHALT PAVEMENT PRIOR TO FINAL PAVING WITH HOT-MIX ASPHALT.
8. DURING THE CLOSURE OF RIVERSIDE DRIVE, THE NORTHBOUND DRIVING LANES AT THE SIGNALIZED INTERSECTION WITH VINTAGE BOULEVARD MAY BE CLOSED, BUT ALL OTHER MOVEMENTS THROUGH THE INTERSECTION SHALL BE MAINTAINED. COORDINATE CONTROL OF THE TRAFFIC SIGNALS WITH CBJ STREETS (KIT WATTS, 723-7350) AND DOT&PF M&O (SPENCER GATES, 723-9950).
9. FOR THE 2" WATER SERVICE CONNECTION BENEATH THE RIVERSIDE DRIVE BIKE LANE, WORK SHALL BE PERFORMED WITH A DOUBLE-LANE SHIFT THAT ALLOWS FOR TWO 10-FT DRIVING LANES AND TWO 4-FT BIKE LANES. ALL WORK REQUIRED FOR THE 2" WATER SERVICE WITHIN THE RIVERSIDE DRIVE SHALL BE COMPLETED PRIOR TO COMMENCEMENT OF THE RIVERSIDE DRIVE CROSSING WORK. SEE THE WATER SERVICE PLAN AND DETAILS ON C-105.
10. CONTRACTOR TO INSTALL TRAFFIC CONTROL BARRICADES AND DRUMS AT SOUTH END OF RIVERSIDE DRIVE CLOSURE AS REQUIRED AND LIMIT CONSTRUCTION ACTIVITIES WITHIN 75- FEET OF THE INTERSECTION CAMERAS.
11. THE RIVERSIDE DRIVE CLOSURE SHALL BE POSTED WITH CHANGEABLE MESSAGE BOARDS FOR BOTH WESTBOUND AND EASTBOUND TRAFFIC ON EGAN DRIVE AT LEAST TWO DAYS PRIOR TO THE CLOSURES, AS WELL AS DURING THE CLOSURES.
12. DURING THE RIVERSIDE DRIVE CLOSURE, SOUTHBOUND TRAFFIC MAY BE CLOSED AT JAMES BOULEVARD, BUT ACCESS TO AT LEAST ONE OF THE TWO DRIVEWAYS ON THE NORTH END OF THE ALASKA CLUB PROPERTY SHALL BE MAINTAINED. COORDINATE THE WORK WITH SANDY EPSON, GENERAL MANAGER, 789-2181, AT LEAST TWO DAYS PRIOR TO THE CLOSURE.

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TO EGAN DRIVE
SEE NOTE 11

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CAPITAL TRANSIT VALLEY TRANSFER STATION
CONTRACT NO. BE20-268
TRAFFIC CONTROL AND
PEDESTRIAN ACCESS

PROJECT	71014.01
DATE	3/31/2021
SHEET	G-002

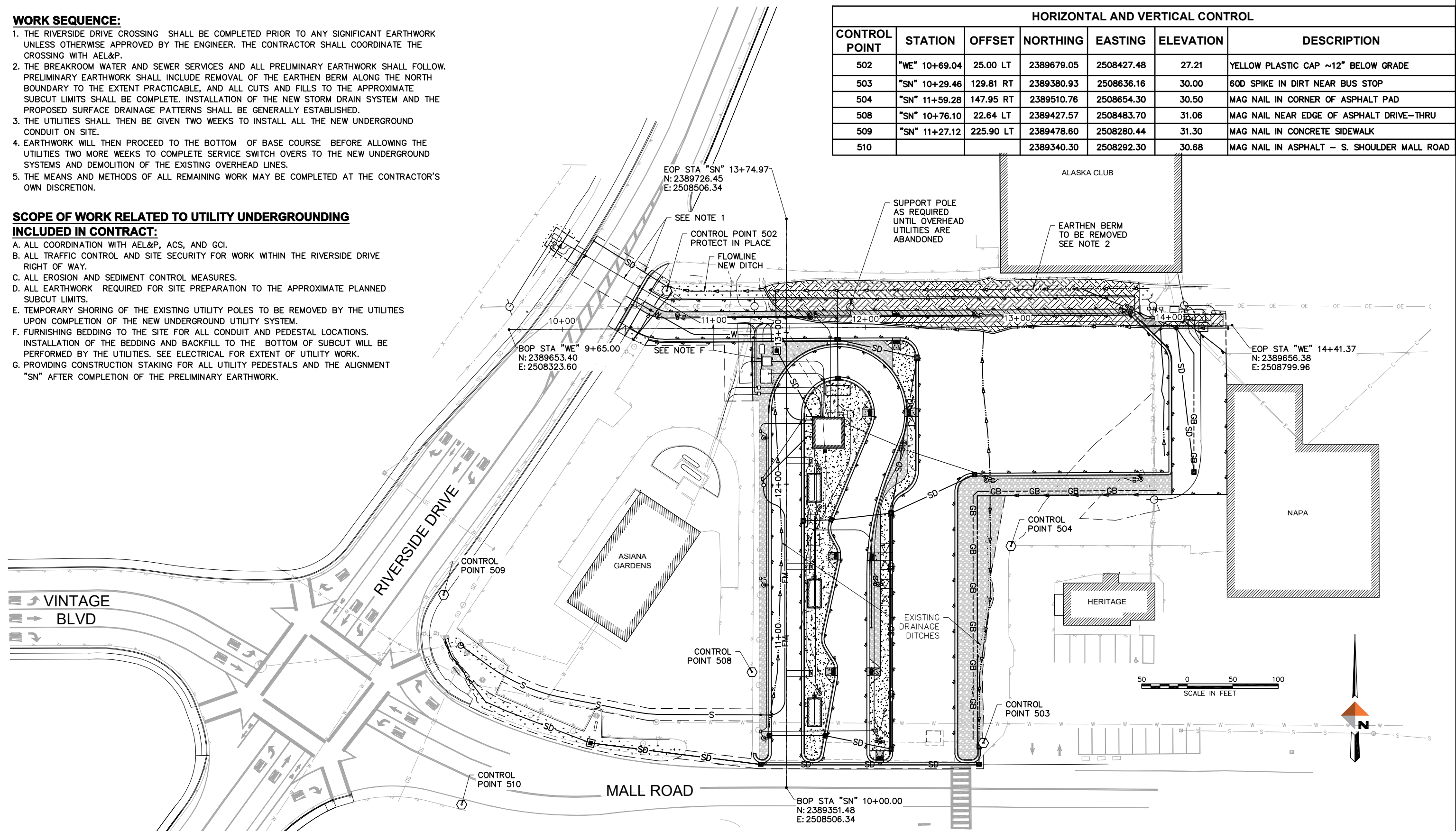
WORK SEQUENCE:

1. THE RIVERSIDE DRIVE CROSSING SHALL BE COMPLETED PRIOR TO ANY SIGNIFICANT EARTHWORK UNLESS OTHERWISE APPROVED BY THE ENGINEER. THE CONTRACTOR SHALL COORDINATE THE CROSSING WITH AEL&P.
2. THE BREAKROOM WATER AND SEWER SERVICES AND ALL PRELIMINARY EARTHWORK SHALL FOLLOW. PRELIMINARY EARTHWORK SHALL INCLUDE REMOVAL OF THE EARTHEN BERM ALONG THE NORTH BOUNDARY TO THE EXTENT PRACTICABLE, AND ALL CUTS AND FILLS TO THE APPROXIMATE SUBCUT LIMITS SHALL BE COMPLETE. INSTALLATION OF THE NEW STORM DRAIN SYSTEM AND THE PROPOSED SURFACE DRAINAGE PATTERNS SHALL BE GENERALLY ESTABLISHED.
3. THE UTILITIES SHALL THEN BE GIVEN TWO WEEKS TO INSTALL ALL THE NEW UNDERGROUND CONDUIT ON SITE.
4. EARTHWORK WILL THEN PROCEED TO THE BOTTOM OF BASE COURSE BEFORE ALLOWING THE UTILITIES TWO MORE WEEKS TO COMPLETE SERVICE SWITCH OVERS TO THE NEW UNDERGROUND SYSTEMS AND DEMOLITION OF THE EXISTING OVERHEAD LINES.
5. THE MEANS AND METHODS OF ALL REMAINING WORK MAY BE COMPLETED AT THE CONTRACTOR'S OWN DISCRETION.

SCOPE OF WORK RELATED TO UTILITY UNDERGROUNDING INCLUDED IN CONTRACT:

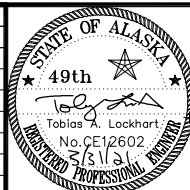
- A. ALL COORDINATION WITH AEL&P, ACS, AND GCI.
- B. ALL TRAFFIC CONTROL AND SITE SECURITY FOR WORK WITHIN THE RIVERSIDE DRIVE RIGHT OF WAY.
- C. ALL EROSION AND SEDIMENT CONTROL MEASURES.
- D. ALL EARTHWORK REQUIRED FOR SITE PREPARATION TO THE APPROXIMATE PLANNED SUBCUT LIMITS.
- E. TEMPORARY SHORING OF THE EXISTING UTILITY POLES TO BE REMOVED BY THE UTILITIES UPON COMPLETION OF THE NEW UNDERGROUND UTILITY SYSTEM.
- F. FURNISHING BEDDING TO THE SITE FOR ALL CONDUIT AND PEDESTAL LOCATIONS. INSTALLATION OF THE BEDDING AND BACKFILL TO THE BOTTOM OF SUBCUT WILL BE PERFORMED BY THE UTILITIES. SEE ELECTRICAL FOR EXTENT OF UTILITY WORK.
- G. PROVIDING CONSTRUCTION STAKING FOR ALL UTILITY PEDESTALS AND THE ALIGNMENT "SN" AFTER COMPLETION OF THE PRELIMINARY EARTHWORK.

HORIZONTAL AND VERTICAL CONTROL						
CONTROL POINT	STATION	OFFSET	NORTHING	EASTING	ELEVATION	DESCRIPTION
502	"WE" 10+69.04	25.00 LT	2389679.05	2508427.48	27.21	YELLOW PLASTIC CAP ~12" BELOW GRADE
503	"SN" 10+29.46	129.81 RT	2389380.93	2508636.16	30.00	60D SPIKE IN DIRT NEAR BUS STOP
504	"SN" 11+59.28	147.95 RT	2389510.76	2508654.30	30.50	MAG NAIL IN CORNER OF ASPHALT PAD
508	"SN" 10+76.10	22.64 LT	2389427.57	2508483.70	31.06	MAG NAIL NEAR EDGE OF ASPHALT DRIVE-THRU
509	"SN" 11+27.12	225.90 LT	2389478.60	2508280.44	31.30	MAG NAIL IN CONCRETE SIDEWALK
510			2389340.30	2508292.30	30.68	MAG NAIL IN ASPHALT - S. SHOULDER MALL ROAD



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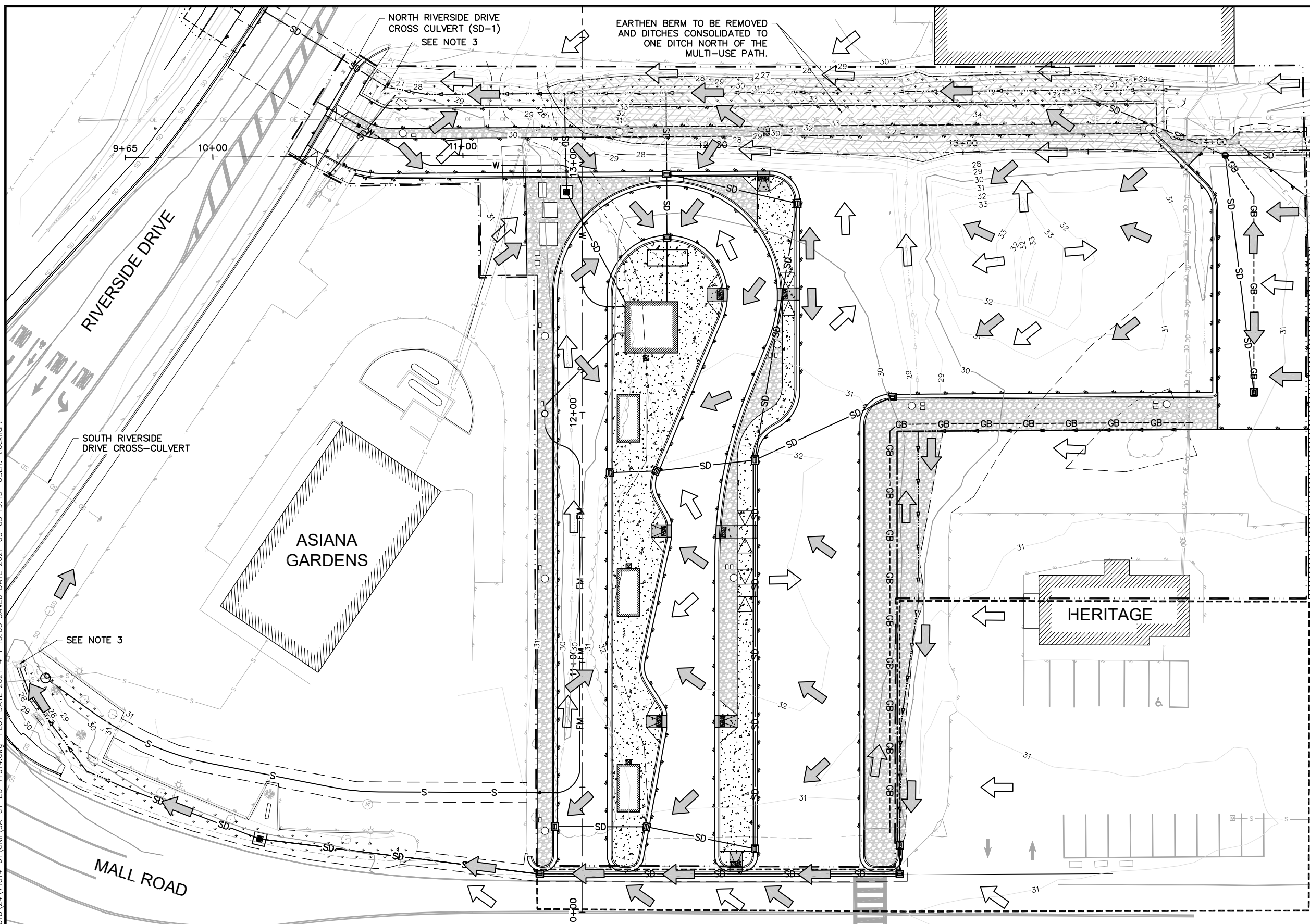
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CAPITAL TRANSIT VALLEY TRANSFER STATION
 CONTRACT NO. BE20-268
 WORK SEQUENCE, UTILITY
 UNDERGROUNDING COORDINATION
 AND SURVEY CONTROL

PROJECT	71014.01
DATE	3/31/2021
SHEET	G-003

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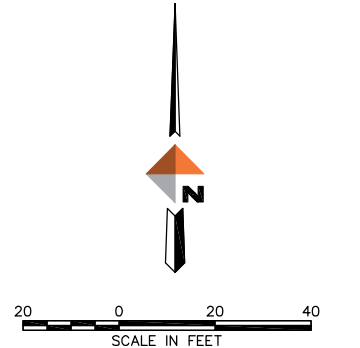


NORTH RIVERSIDE DRIVE CROSS CULVERT (SD-1)
SEE NOTE 3

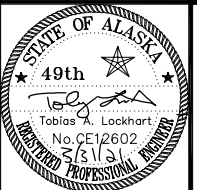
EARTHEN BERM TO BE REMOVED AND DITCHES CONSOLIDATED TO ONE DITCH NORTH OF THE MULTI-USE PATH.

- NOTES**
1. THE CONTRACTOR SHALL PROVIDE FOR EROSION AND SEDIMENT CONTROL DURING CONSTRUCTION IN ACCORDANCE WITH THE REQUIREMENTS OF THE ALASKA DEPARTMENT OF ENVIRONMENTAL CONSERVATION (ADEC). ALL DISCHARGE OF POLLUTANTS AND SEDIMENTATION FROM ON-SITE DRAINAGE SHALL BE CAUGHT ON-SITE.
 2. THE PROJECT SITE IS GREATER THAN 1-ACRE AND EROSION CONTROL WILL INCLUDE PREPARATION AND MAINTENANCE OF A STORM WATER POLLUTION PREVENTION PLAN (SWPPP), CONTROL OF EROSION, SEDIMENTATION AND DISCHARGE OF POLLUTANTS, IN ACCORDANCE WITH THE ADEC CONSTRUCTION GENERAL PERMIT (CGP).
 3. PROVIDE BMP'S AS REQUIRED TO TREAT RUNOFF BEFORE IT LEAVES THE PROJECT SITE AT RIVERSIDE DRIVE.

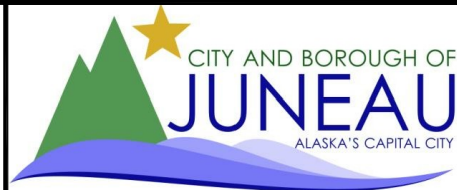
- DRAINAGE LEGEND**
- PRESENT AND PROPOSED DRAINAGE TO NORTH RIVERSIDE DRIVE CROSS-SULVERT
 - PRESENTLY DRAINING TO NORTH RIVERSIDE DRIVE CROSS-CULVERT ACROSS THE NEW CBJ-PARCEL AREA TO BE RE-ROUTED TO SOUTH RIVERSIDE DRIVE CROSS CULVERT UNDER PROPOSED GRADING PLAN
 - EXISTING FLOW DIRECTION
 - PROPOSED FLOW DIRECTION



REVISIONS			
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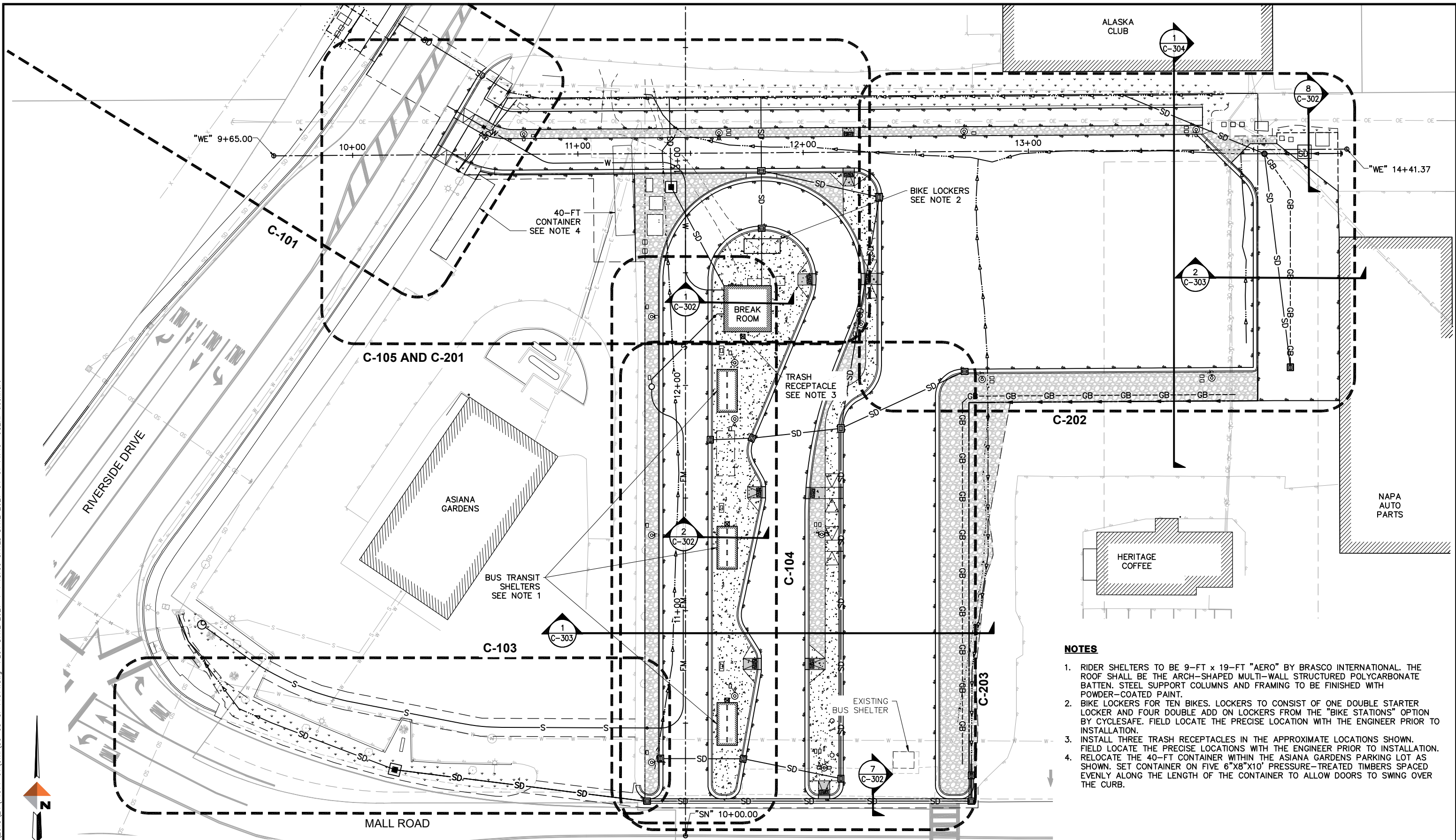
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CAPITAL TRANSIT VALLEY TRANSFER STATION
CONTRACT NO. BE20-268
EROSION AND SEDIMENT CONTROL

PROJECT 71014.01
DATE 3/31/2021
SHEET
G-004

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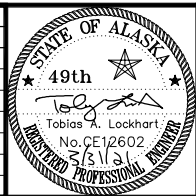


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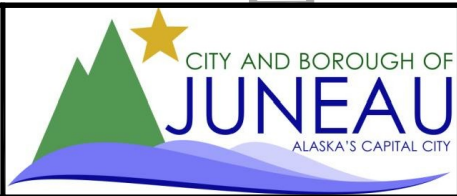
1. RIDER SHELTERS TO BE 9-FT x 19-FT "AERO" BY BRASCO INTERNATIONAL. THE ROOF SHALL BE THE ARCH-SHAPED MULTI-WALL STRUCTURED POLYCARBONATE BATTEN. STEEL SUPPORT COLUMNS AND FRAMING TO BE FINISHED WITH POWDER-COATED PAINT.
2. BIKE LOCKERS FOR TEN BIKES. LOCKERS TO CONSIST OF ONE DOUBLE STARTER LOCKER AND FOUR DOUBLE ADD ON LOCKERS FROM THE "BIKE STATIONS" OPTION BY CYCLESAFE. FIELD LOCATE THE PRECISE LOCATION WITH THE ENGINEER PRIOR TO INSTALLATION.
3. INSTALL THREE TRASH RECEPTACLES IN THE APPROXIMATE LOCATIONS SHOWN. FIELD LOCATE THE PRECISE LOCATIONS WITH THE ENGINEER PRIOR TO INSTALLATION.
4. RELOCATE THE 40-FT CONTAINER WITHIN THE ASIANA GARDENS PARKING LOT AS SHOWN. SET CONTAINER ON FIVE 6"X8"X10' PRESSURE-TREATED TIMBERS SPACED EVENLY ALONG THE LENGTH OF THE CONTAINER TO ALLOW DOORS TO SWING OVER THE CURB.



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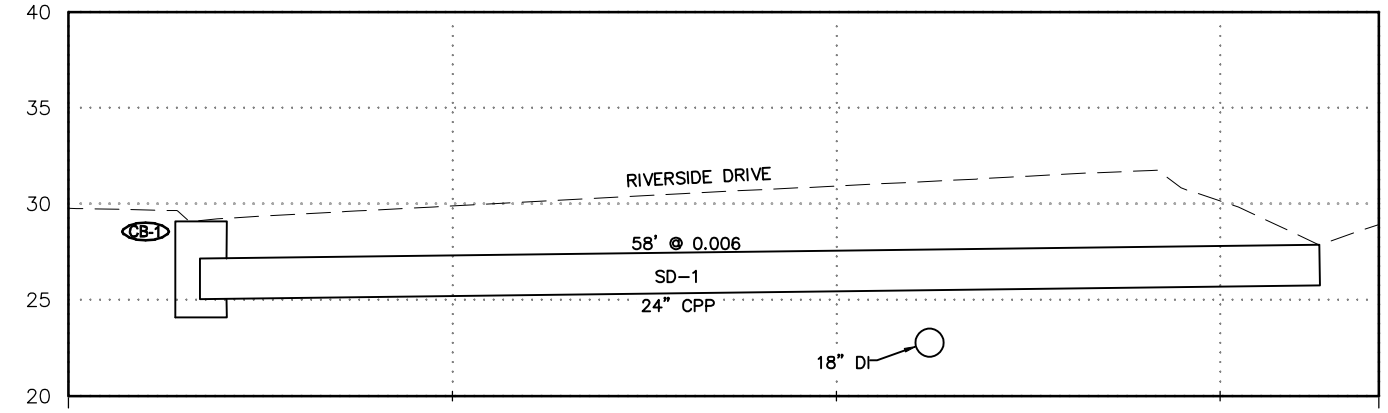
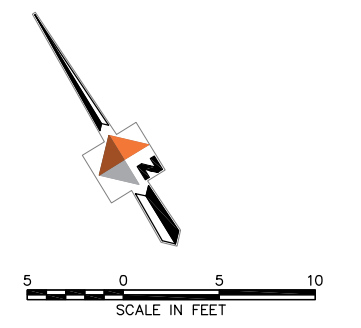
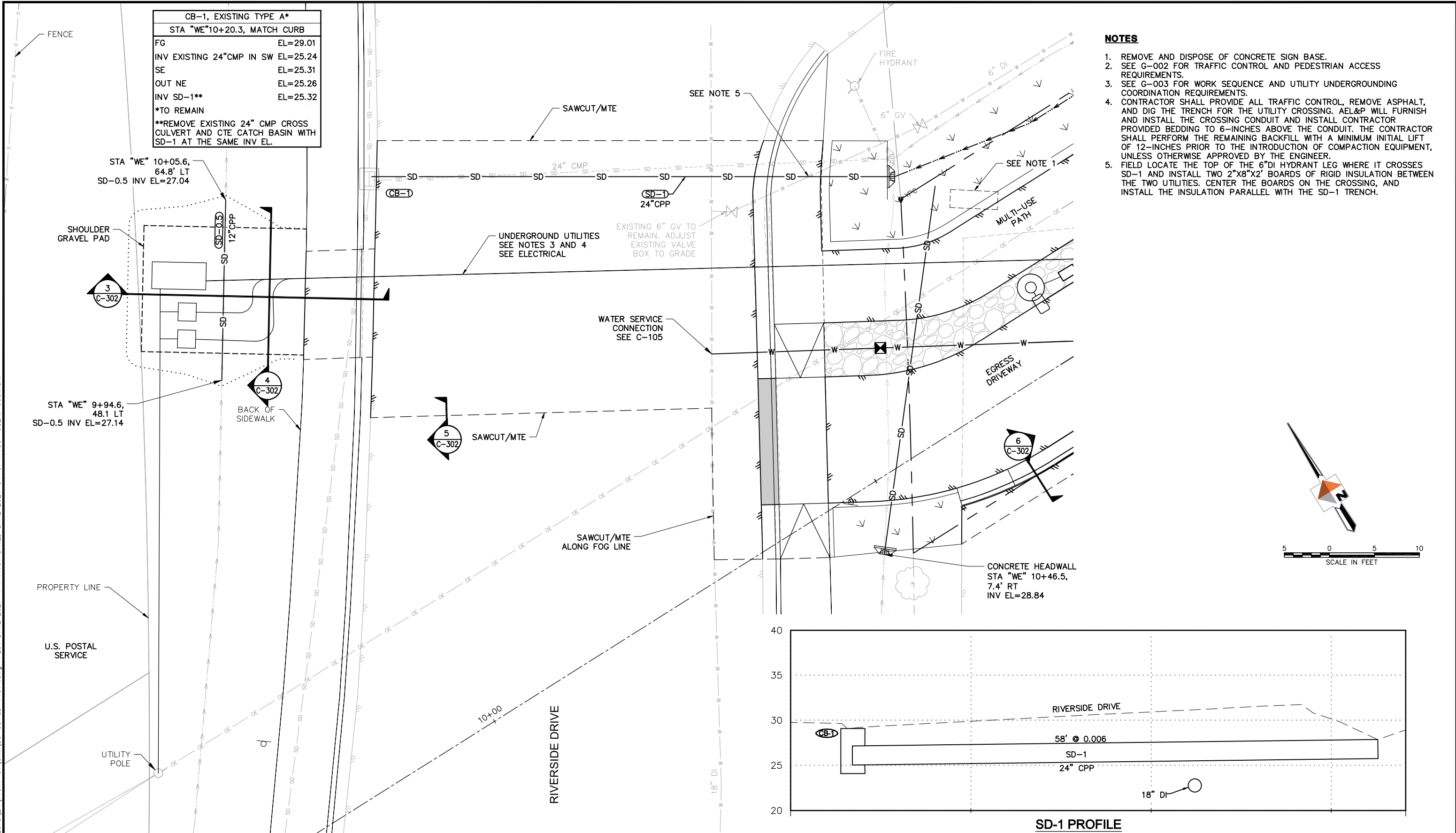
CAPITAL TRANSIT VALLEY TRANSFER STATION
CONTRACT NO. BE20-268
OVERALL SITE PLAN
AND KEY MAP

PROJECT	71014.01
DATE	3/31/2021
SHEET	C-100

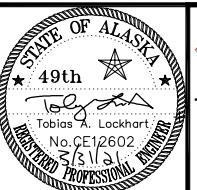
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CB-1, EXISTING TYPE A*	
STA "WE"10+20.3, MATCH CURB	
FG	EL=29.01
INV EXISTING 24" CMP IN SW	EL=25.24
SE	EL=25.31
OUT NE	EL=25.26
INV SD-1**	EL=25.32
*TO REMAIN	
**REMOVE EXISTING 24" CMP CROSS CULVERT AND CTE CATCH BASIN WITH SD-1 AT THE SAME INV EL.	

- NOTES**
1. REMOVE AND DISPOSE OF CONCRETE SIGN BASE.
 2. SEE G-002 FOR TRAFFIC CONTROL AND PEDESTRIAN ACCESS REQUIREMENTS.
 3. SEE G-003 FOR WORK SEQUENCE AND UTILITY UNDERGROUNDING COORDINATION REQUIREMENTS.
 4. CONTRACTOR SHALL PROVIDE ALL TRAFFIC CONTROL, REMOVE ASPHALT, AND DIG THE TRENCH FOR THE UTILITY CROSSING. AEL&P WILL FURNISH AND INSTALL THE CROSSING CONDUIT AND INSTALL CONTRACTOR PROVIDED BEDDING TO 6-INCHES ABOVE THE CONDUIT. THE CONTRACTOR SHALL PERFORM THE REMAINING BACKFILL WITH A MINIMUM INITIAL LIFT OF 12-INCHES PRIOR TO THE INTRODUCTION OF COMPACTION EQUIPMENT, UNLESS OTHERWISE APPROVED BY THE ENGINEER.
 5. FIELD LOCATE THE TOP OF THE 6" DI HYDRANT LEG WHERE IT CROSSES SD-1 AND INSTALL TWO 2"X8"X2' BOARDS OF RIGID INSULATION BETWEEN THE TWO UTILITIES. CENTER THE BOARDS ON THE CROSSING, AND INSTALL THE INSULATION PARALLEL WITH THE SD-1 TRENCH.



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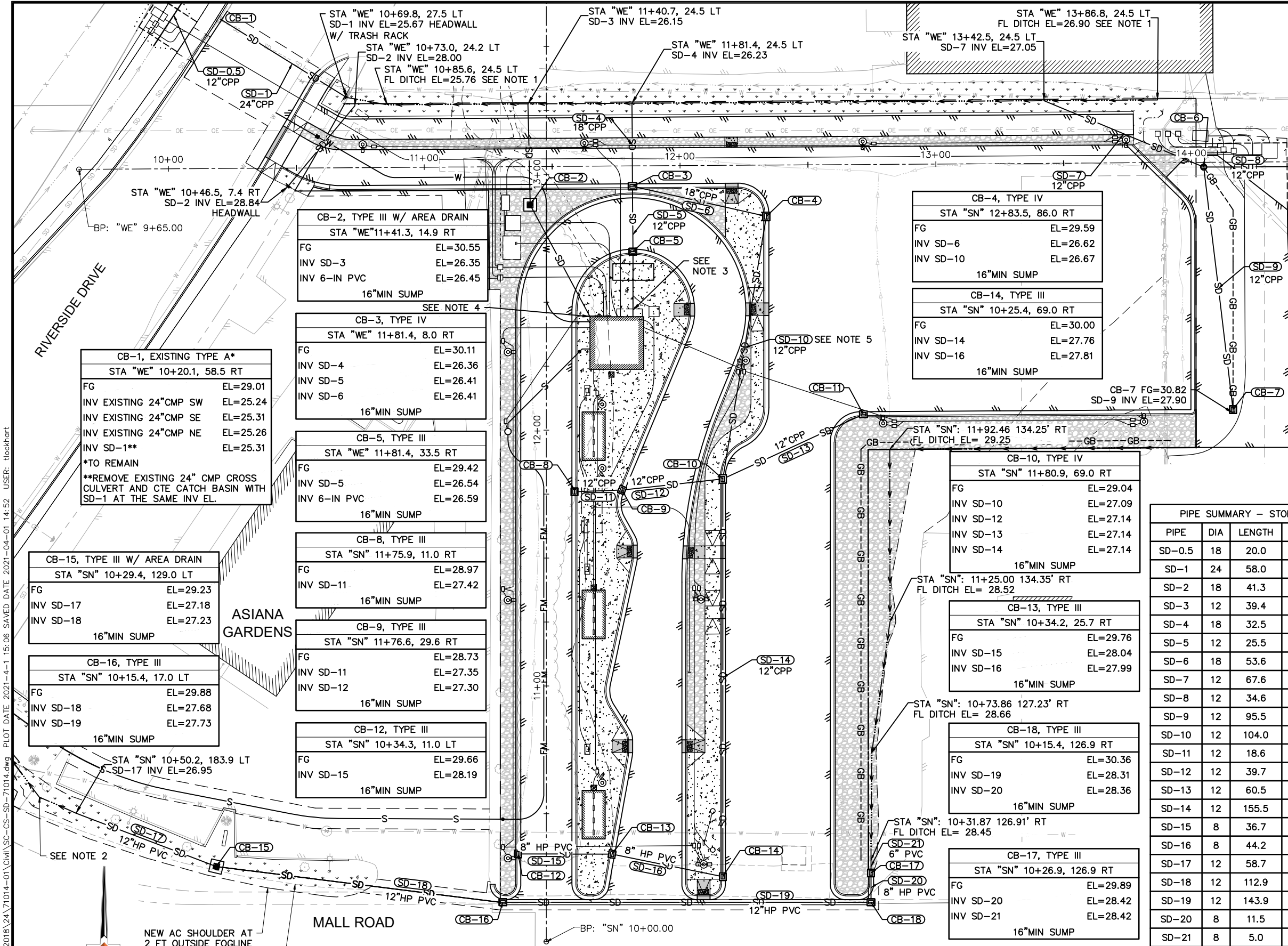


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CAPITAL TRANSIT VALLEY TRANSFER STATION
 CONTRACT NO. BE20-268
 RIVERSIDE DRIVE CROSSING

PROJECT	71014.01
DATE	3/31/2021
SHEET	C-101



- NOTES**
- STRAIGHT GRADE THE NEW DITCH ALONG THE NORTHERN PROPERTY BOUNDARY BETWEEN THE TWO POINTS PROVIDED AT 0.005.
 - SEE C-103 FOR DITCH LAYOUT AT SD-17 OUTFALL.
 - EXTEND 6" PVC AT 0.010 FROM CB-5 AND CONNECT TO THE BREAKROOM FOUNDATION DRAIN AT APPROXIMATE EL=27.00 EXTEND 6" PVC AT 0.010 FROM CB-2 AND CONNECT TO BREAKROOM DOWNSPOUTS.
 - ARC SD-10 AROUND THE BASE FOR LIGHT POLE L7 AS REQUIRED TO PROVIDE 6" CLEARANCE.

CB-1, EXISTING TYPE A*
STA "WE" 10+20.1, 58.5 RT

FG	EL=29.01
INV EXISTING 24" CMP SW	EL=25.24
INV EXISTING 24" CMP SE	EL=25.31
INV EXISTING 24" CMP NE	EL=25.26
INV SD-1**	EL=25.31

*TO REMAIN
**REMOVE EXISTING 24" CMP CROSS CULVERT AND CTE CATCH BASIN WITH SD-1 AT THE SAME INV EL.

CB-2, TYPE III W/ AREA DRAIN
STA "WE" 11+41.3, 14.9 RT

FG	EL=30.55
INV SD-3	EL=26.35
INV 6-IN PVC	EL=26.45

16" MIN SUMP

CB-3, TYPE IV
STA "WE" 11+81.4, 8.0 RT

FG	EL=30.11
INV SD-4	EL=26.36
INV SD-5	EL=26.41
INV SD-6	EL=26.41

16" MIN SUMP

CB-5, TYPE III
STA "WE" 11+81.4, 33.5 RT

FG	EL=29.42
INV SD-5	EL=26.54
INV 6-IN PVC	EL=26.59

16" MIN SUMP

CB-8, TYPE III
STA "SN" 11+75.9, 11.0 RT

FG	EL=28.97
INV SD-11	EL=27.42

16" MIN SUMP

CB-9, TYPE III
STA "SN" 11+76.6, 29.6 RT

FG	EL=28.73
INV SD-11	EL=27.35
INV SD-12	EL=27.30

16" MIN SUMP

CB-12, TYPE III
STA "SN" 10+34.3, 11.0 LT

FG	EL=29.66
INV SD-15	EL=28.19

16" MIN SUMP

CB-15, TYPE III W/ AREA DRAIN
STA "SN" 10+29.4, 129.0 LT

FG	EL=29.23
INV SD-17	EL=27.18
INV SD-18	EL=27.23

16" MIN SUMP

CB-16, TYPE III
STA "SN" 10+15.4, 17.0 LT

FG	EL=29.88
INV SD-18	EL=27.68
INV SD-19	EL=27.73

16" MIN SUMP

CB-4, TYPE IV
STA "SN" 12+83.5, 86.0 RT

FG	EL=29.59
INV SD-6	EL=26.62
INV SD-10	EL=26.67

16" MIN SUMP

CB-14, TYPE III
STA "SN" 10+25.4, 69.0 RT

FG	EL=30.00
INV SD-14	EL=27.76
INV SD-16	EL=27.81

16" MIN SUMP

CB-10, TYPE IV
STA "SN" 11+80.9, 69.0 RT

FG	EL=29.04
INV SD-10	EL=27.09
INV SD-12	EL=27.14
INV SD-13	EL=27.14
INV SD-14	EL=27.14

16" MIN SUMP

CB-13, TYPE III
STA "SN" 10+34.2, 25.7 RT

FG	EL=29.76
INV SD-15	EL=28.04
INV SD-16	EL=27.99

16" MIN SUMP

CB-18, TYPE III
STA "SN" 10+15.4, 126.9 RT

FG	EL=30.36
INV SD-19	EL=28.31
INV SD-20	EL=28.36

16" MIN SUMP

CB-17, TYPE III
STA "SN" 10+26.9, 126.9 RT

FG	EL=29.89
INV SD-20	EL=28.42
INV SD-21	EL=28.42

16" MIN SUMP

CB-6, TYPE III
STA "SN" 13+02.8, 257.0 RT

FG	EL=30.43
INV SD-7	EL=27.37
INV SD-8	EL=27.42
INV SD-9	EL=27.42

16" MIN SUMP

CB-7, TYPE III
STA "SN" 12+08.0, 268.5 RT

FG	EL=30.58
INV SD-9	EL=27.90

16" MIN SUMP

CB-11, TYPE III
STA "SN" 12+06.2, 123.9 RT

FG	EL=29.92
INV SD-13	EL=27.44

16" MIN SUMP

PIPE SUMMARY - STORM DRAINAGE

PIPE	DIA	LENGTH	TYPE	SLOPE
SD-0.5	18	20.0	CPP	0.005
SD-1	24	58.0	CPP	0.006
SD-2	18	41.3	CPP	0.020
SD-3	12	39.4	CPP	0.005
SD-4	18	32.5	CPP	0.004
SD-5	12	25.5	CPP	0.005
SD-6	18	53.6	CPP	0.004
SD-7	12	67.6	CPP	0.005
SD-8	12	34.6	CPP	0.018
SD-9	12	95.5	CPP	0.005
SD-10	12	104.0	CPP	0.004
SD-11	12	18.6	CPP	0.004
SD-12	12	39.7	CPP	0.004
SD-13	12	60.5	CPP	0.005
SD-14	12	155.5	CPP	0.004
SD-15	8	36.7	HP PVC	0.004
SD-16	8	44.2	HP PVC	0.004
SD-17	12	58.7	HP PVC	0.005
SD-18	12	112.9	HP PVC	0.004
SD-19	12	143.9	HP PVC	0.004
SD-20	8	11.5	HP PVC	0.005
SD-21	8	5.0	HP PVC	0.005

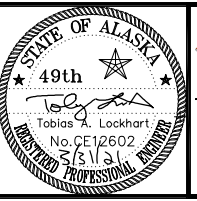
FRAME AND GRATE SUMMARY

CB	DESCRIPTION
CB-1	EXISTING TO REMAIN
CB-2	EJ 3721Z W/3700M GRATE
CB-3	EJ 7701 T2 HOOD W/T100 M2 GRATE
CB-4	EJ 7701 T2 HOOD W/T100 M1 GRATE
CB-5	EJ 7701 T2 HOOD W/T100 M1 GRATE
CB-6	EJ 3721Z W/3700M GRATE
CB-7	OF SM 18DI
CB-8	EJ 7701 T2 HOOD W/T100 M1 GRATE
CB-9	EJ 7701 T2 HOOD W/T100 M1 GRATE
CB-10	EJ 7701 T2 HOOD W/T100 M1 GRATE
CB-11	EJ 7701 T2 HOOD W/T100 M2 GRATE
CB-12	EJ 7701 T2 HOOD W/T100 M1 GRATE
CB-13	EJ 7701 T2 HOOD W/T100 M1 GRATE
CB-14	EJ 7701 T2 HOOD W/T100 M1 GRATE
CB-15	EJ 3721Z W/3700M GRATE
CB-16	OF SM 18DI
CB-17	EJ 7701 T2 HOOD W/T100 M1 GRATE
CB-18	OF SM 18DI

- NOTES:**
- CATCH BASIN TOP SLAB OPENINGS SHALL BE DIMENSIONED TO FIT THE FRAME DIMENSIONS. ALL FRAME AND GRATES SHALL BE DUCTILE IRON.
 - LOCAL FLOW LINE DEPRESSION AT CATCH BASIN SHALL BE 3/4", WITH 36" TRANSITIONS TO EACH SIDE OF THE FRAME, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
 - ALL CATCH BASIN FINISHED GRADES (FG) PROVIDED ARE TO THE FLOWLINE OF THE FRAME AT THE LONGITUDINAL CENTER OF THE FRAME AFTER APPLICATION OF THE LOCALIZED DEPRESSION. FOR TYPE I CURB & GUTTER THE FG IS 0.56 BELOW THE TBC.

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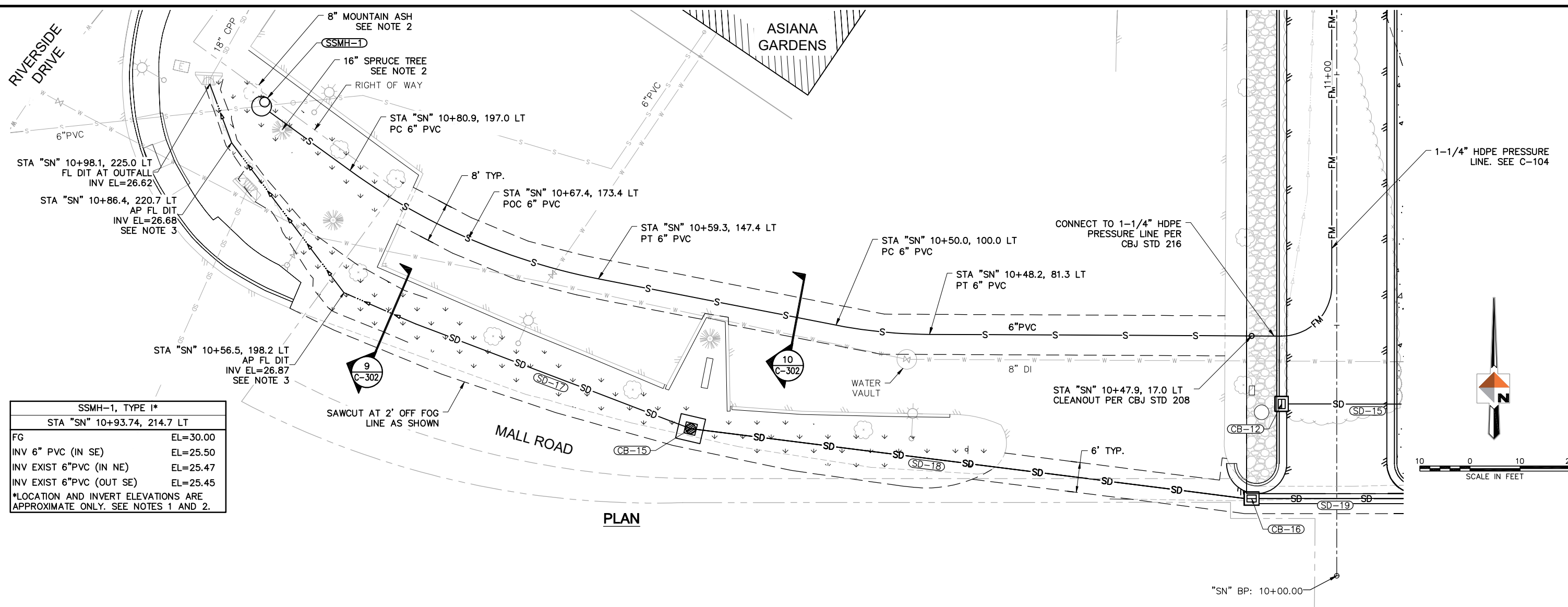


CAPITAL TRANSIT VALLEY TRANSFER STATION
CONTRACT NO. BE20-268
STORM DRAIN PLAN

PROJECT 71014.01
DATE 3/31/2021
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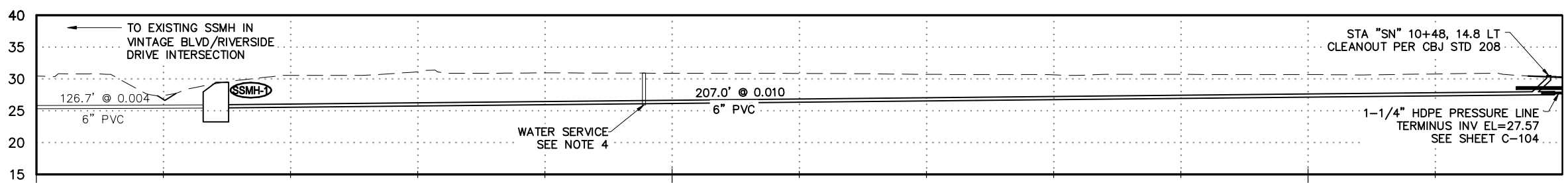
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SSMH-1, TYPE I*	
STA "SN" 10+93.74, 214.7 LT	
FG	EL=30.00
INV 6" PVC (IN SE)	EL=25.50
INV EXIST 6" PVC (IN NE)	EL=25.47
INV EXIST 6" PVC (OUT SE)	EL=25.45
*LOCATION AND INVERT ELEVATIONS ARE APPROXIMATE ONLY. SEE NOTES 1 AND 2.	

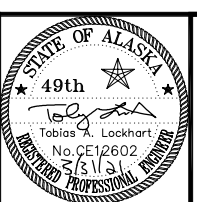
PLAN



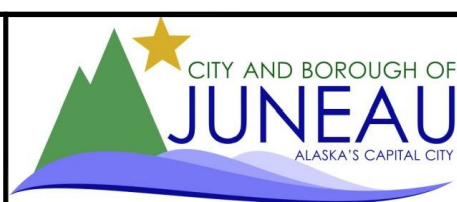
PROFILE

- NOTES**
1. FIELD LOCATE SSMH-1 AS REQUIRED TO CONNECT TO EXISTING 6" PVC WITHIN THE RIGHT OF WAY IN THE APPROXIMATE LOCATION SHOWN. ADJUST PIPE INVERT ELEVATIONS AS REQUIRED TO MATCH EXISTING.
 2. REMOVE AND DISPOSE OF TWO TREES ADJACENT TO SSMH-1. FIELD VERIFY LOCATION AND ALIGNMENT OF EXISTING SEWER SERVICE PRIOR TO TREE REMOVAL.
 3. ESTABLISH NEW DITCH BETWEEN THE OUTFALL FOR SD-17 AND THE 18" CPP TO RIVERSIDE DRIVE AT APPROXIMATELY 0.005 AS SHOWN.
 4. PROTECT EXISTING ASIANA GARDENS WATER SERVICE AS REQUIRED. EXISTING 8" DI WATER MAIN IS NOT SHOWN IN PROFILE FOR CLARITY, BUT ASSUMED TO BE AT 5-FT BURY.

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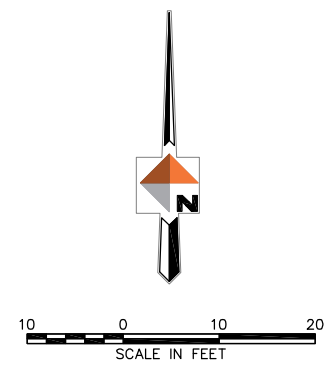


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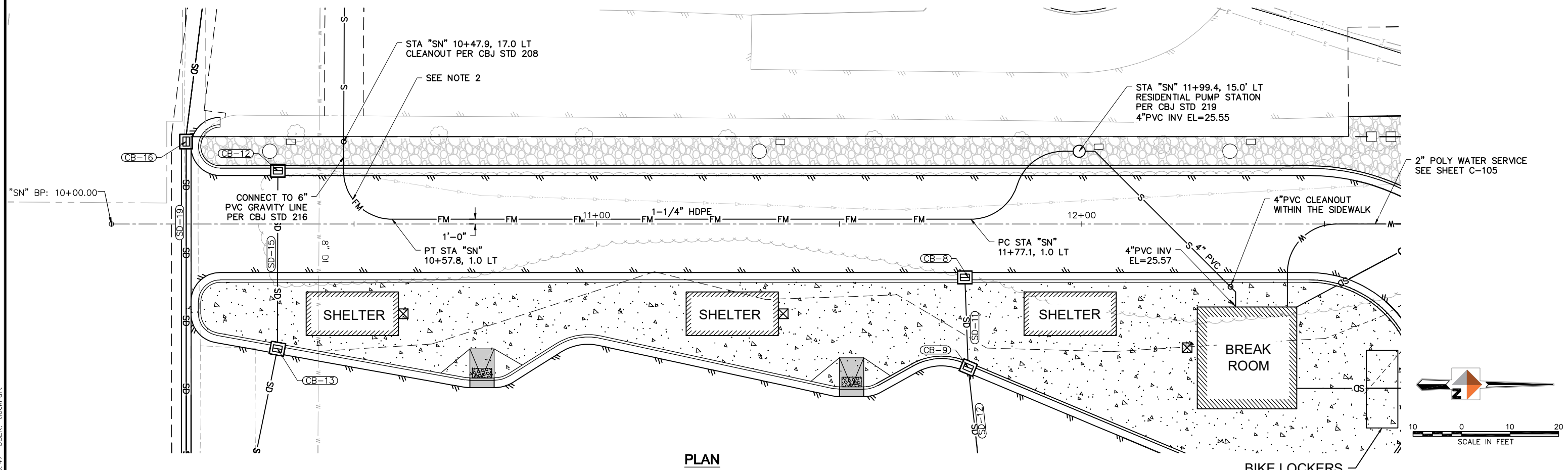


CAPITAL TRANSIT VALLEY TRANSFER STATION
CONTRACT NO. BE20-268
SANITARY SEWER GRAVITY LINE
PLAN AND PROFILE

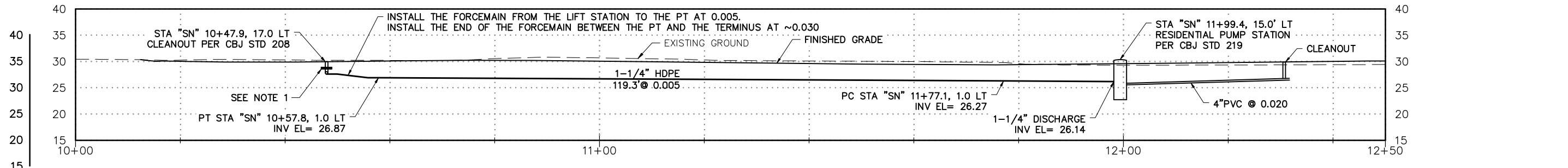
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PLAN

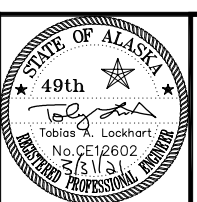


"SN" FORCE MAIN PROFILE

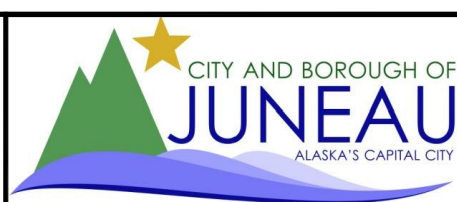
NOTES

1. TWO LAYERS OF 2" RIGID BOARD INSULATION 4'X16' PLAN DIMENSIONS CENTERED ON PIP. STAGGER JOINTS BETWEEN PIECES TO ELIMINATE GAPS MORE THAN ONE 2" BOARD THICKNESS.
2. MAINTAIN MINIMUM BENDING RADIUS OR GREATER PER MANUFACTURERS RECOMMENDATIONS.

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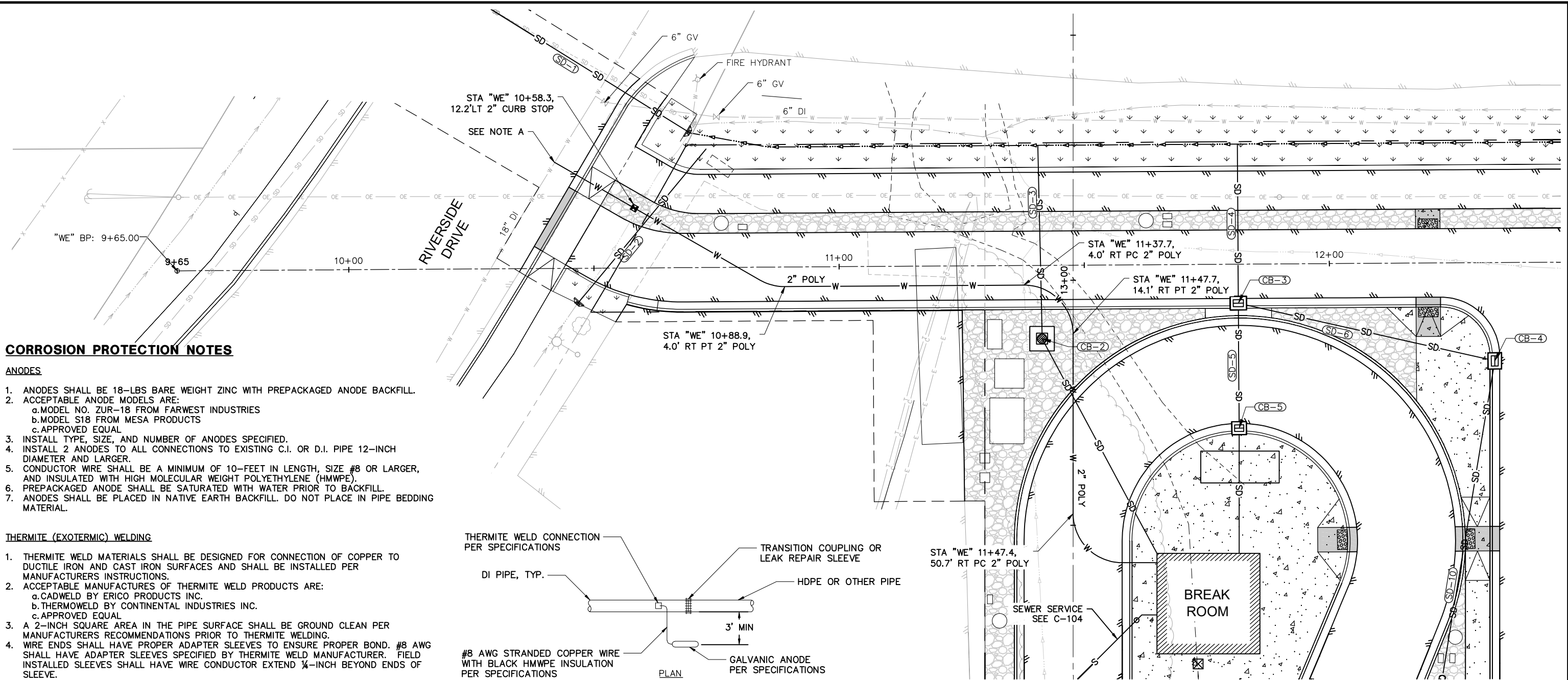
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CAPITAL TRANSIT VALLEY TRANSFER STATION
CONTRACT NO. BE20-268
SANITARY SEWER PRESSURE LINE
PLAN AND PROFILE

PROJECT	71014.01
DATE	3/31/2021
SHEET	C-104

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CORROSION PROTECTION NOTES

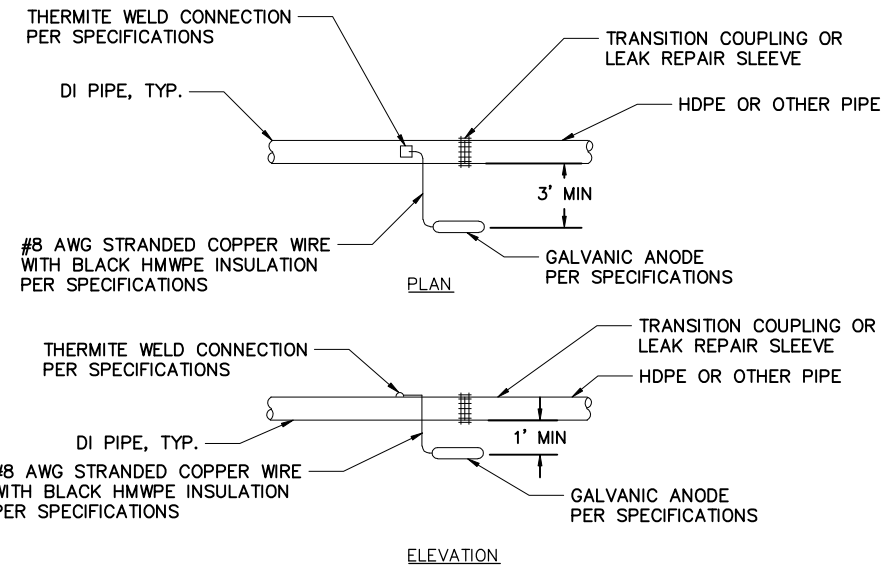
- ANODES**
1. ANODES SHALL BE 18-LBS BARE WEIGHT ZINC WITH PREPACKAGED ANODE BACKFILL.
 2. ACCEPTABLE ANODE MODELS ARE:
 - a. MODEL NO. ZUR-18 FROM FARWEST INDUSTRIES
 - b. MODEL S18 FROM MESA PRODUCTS
 - c. APPROVED EQUAL
 3. INSTALL TYPE, SIZE, AND NUMBER OF ANODES SPECIFIED.
 4. INSTALL 2 ANODES TO ALL CONNECTIONS TO EXISTING C.I. OR D.I. PIPE 12-INCH DIAMETER AND LARGER.
 5. CONDUCTOR WIRE SHALL BE A MINIMUM OF 10- FEET IN LENGTH, SIZE #8 OR LARGER, AND INSULATED WITH HIGH MOLECULAR WEIGHT POLYETHYLENE (HMWPE).
 6. PREPACKAGED ANODE SHALL BE SATURATED WITH WATER PRIOR TO BACKFILL.
 7. 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. #8 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

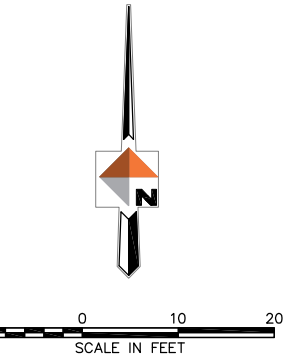
1. ALL THERMITE WELDS SHALL BE PROTECTED AND SEALED BY:
 - a. PREFABRICATED THERMITE WELD CAPS, SIZED ACCORDING TO WIRE SIZE, MINIMUM DIMENSIONS OF 4-INCH BY 4-INCH FILLED WITH ELASTOMERIC MASTIC COATING OR,
 - b. HEAT SHRINK SLEEVE PIPE ENCASEMENT AFTER COATING THERMITE WELD WITH ELASTOMERIC MASTIC 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.



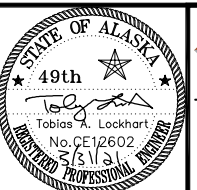
GALVANIC ANODE INSTALLATION FOR EXISTING METALLIC PIPE CONNECTIONS

GENERAL NOTES

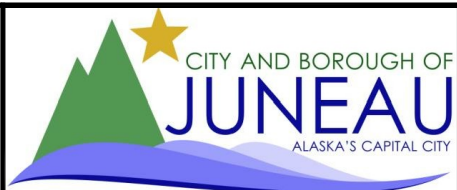
- A. CTE 18" DI MAIN WITH A TAPPING SADDLE AND CORPORATION STOP. INSTALL TWO 18-LB ANODE BAGS ON THE 18" DI WATER MAIN.
- B. THE CONTRACTOR SHALL NOTIFY CBJ WATER UTILITIES (LONI VANKIRK AT 723-4975) OF PROPOSED WATER SERVICE CONNECTION AT RIVERSIDE DRIVE AT LEAST 7 DAYS PRIOR TO THE WORK AND SHALL COORDINATE THE TAP WITH THE WATER UTILITY. THE RIVERSIDE DRIVE WATER MAIN SHALL NOT BE TURNED OFF DURING THE WORK.
- C. THE WATER SERVICE CONNECTION IS TO BE COMPLETED IN ADVANCE OF THE RIVERSIDE DRIVE CROSSING TO ALLOW FOR ONE PAVING OPERATION WITHIN 7 DAYS OF RIVERSIDE DRIVE ASPHALT REMOVAL. SEE TRAFFIC CONTROL AND SEQUENCING REQUIREMENTS ON G-002 AND G-003.
- D. ALL BENDS IN THE 2" SIDR 7 POLY WATER SERVICE SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.



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CAPITAL TRANSIT VALLEY TRANSFER STATION
 CONTRACT NO. BE20-268
 WATER SERVICE PLAN AND DETAILS

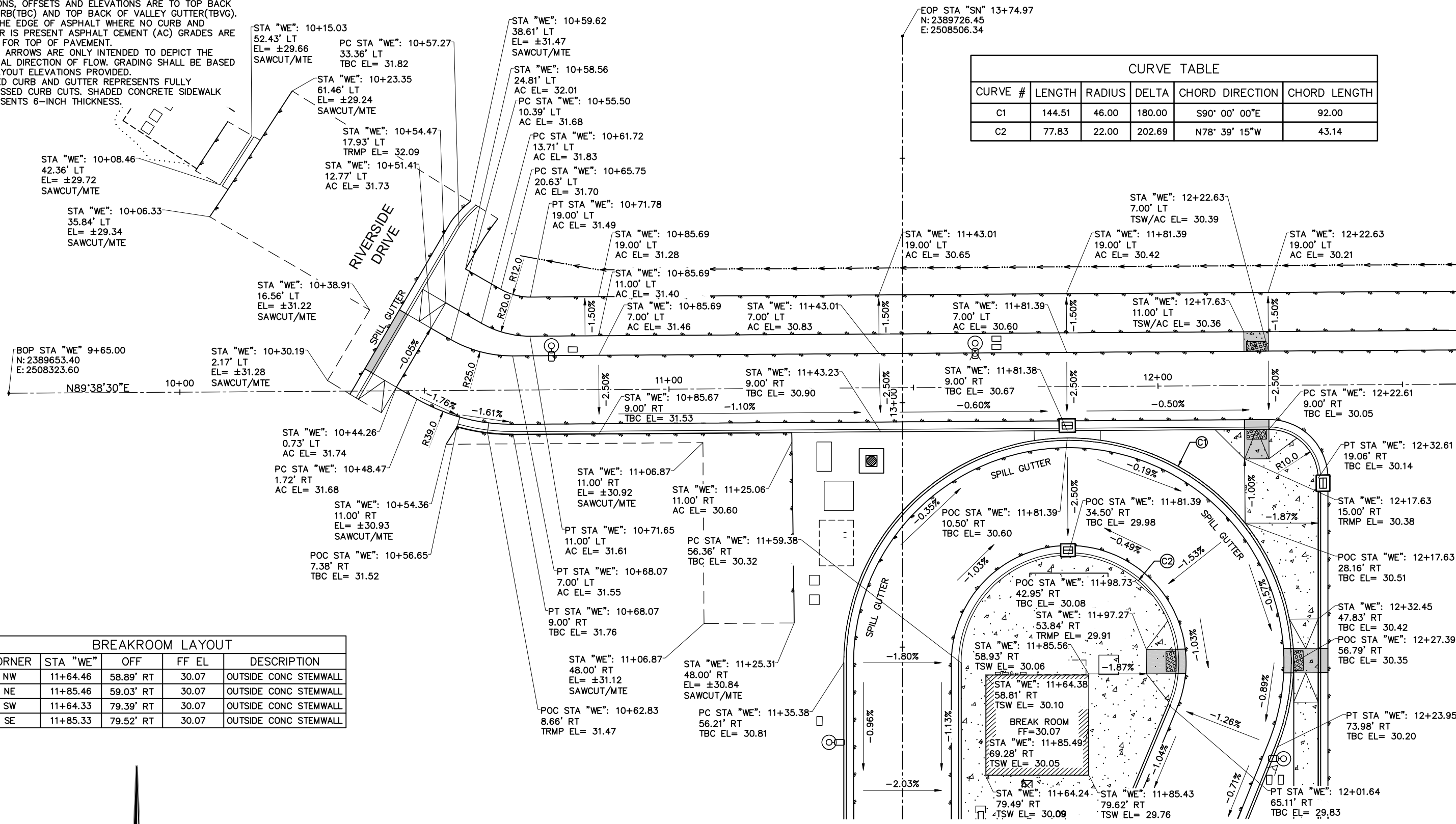
PROJECT	71014.01
DATE	3/31/2021
SHEET	C-105

NOTES

1. STATIONS, OFFSETS AND ELEVATIONS ARE TO TOP BACK OF CURB(TBC) AND TOP BACK OF VALLEY GUTTER(TBVG). FOR THE EDGE OF ASPHALT WHERE NO CURB AND GUTTER IS PRESENT ASPHALT CEMENT (AC) GRADES ARE GIVEN FOR TOP OF PAVEMENT.
2. SLOPE ARROWS ARE ONLY INTENDED TO DEPICT THE GENERAL DIRECTION OF FLOW. GRADING SHALL BE BASED ON LAYOUT ELEVATIONS PROVIDED.
3. SHADED CURB AND GUTTER REPRESENTS FULLY DEPRESSED CURB CUTS. SHADED CONCRETE SIDEWALK REPRESENTS 6-INCH THICKNESS.

EOP STA "SN" 13+74.97
N: 2389726.45
E: 2508506.34

CURVE TABLE					
CURVE #	LENGTH	RADIUS	DELTA	CHORD DIRECTION	CHORD LENGTH
C1	144.51	46.00	180.00	S90° 00' 00"E	92.00
C2	77.83	22.00	202.69	N78° 39' 15"W	43.14

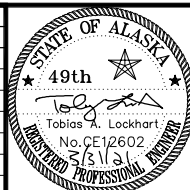


SEE SHEET C-202

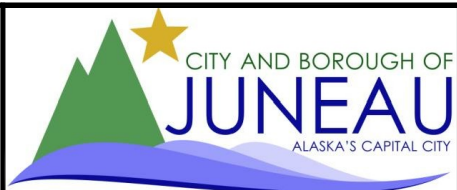
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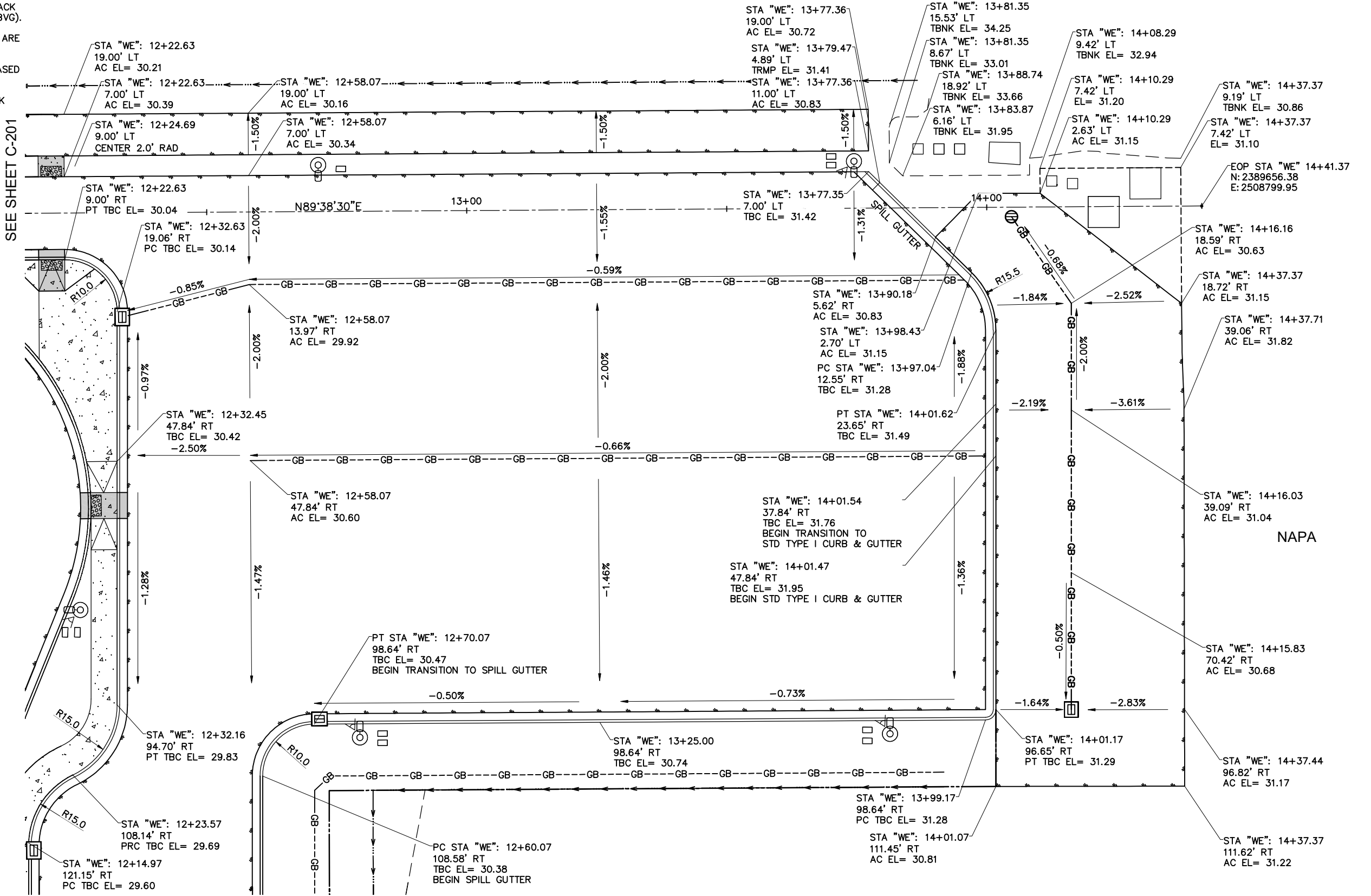
CAPITAL TRANSIT VALLEY TRANSFER STATION
CONTRACT NO. BE20-268
HORIZONTAL AND VERTICAL LAYOUT

PROJECT	71014.01
DATE	3/31/2021
SHEET	C-201

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NOTES

1. STATIONS, OFFSETS AND ELEVATIONS ARE TO TOP BACK OF CURB(TBC) AND TOP BACK OF VALLEY GUTTER(TBVG). FOR THE EDGE OF ASPHALT WHERE NO CURB AND GUTTER IS PRESENT ASPHALT CEMENT (AC) GRADES ARE GIVEN FOR TOP OF PAVEMENT.
2. SLOPE ARROWS ARE ONLY INTENDED TO DEPICT THE GENERAL DIRECTION OF FLOW. GRADING SHALL BE BASED ON LAYOUT ELEVATIONS PROVIDED.
3. SHADED CURB AND GUTTER REPRESENTS FULLY DEPRESSED CURB CUTS. SHADED CONCRETE SIDEWALK REPRESENTS 6-INCH THICKNESS.

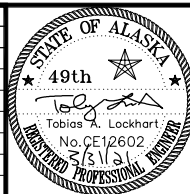


SEE SHEET C-201

SEE SHEET C-203



REVISIONS			
REV	DATE	DESCRIPTION	BY



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CAPITAL TRANSIT VALLEY TRANSFER STATION
CONTRACT NO. BE20-268
HORIZONTAL AND VERTICAL LAYOUT

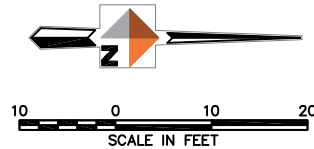
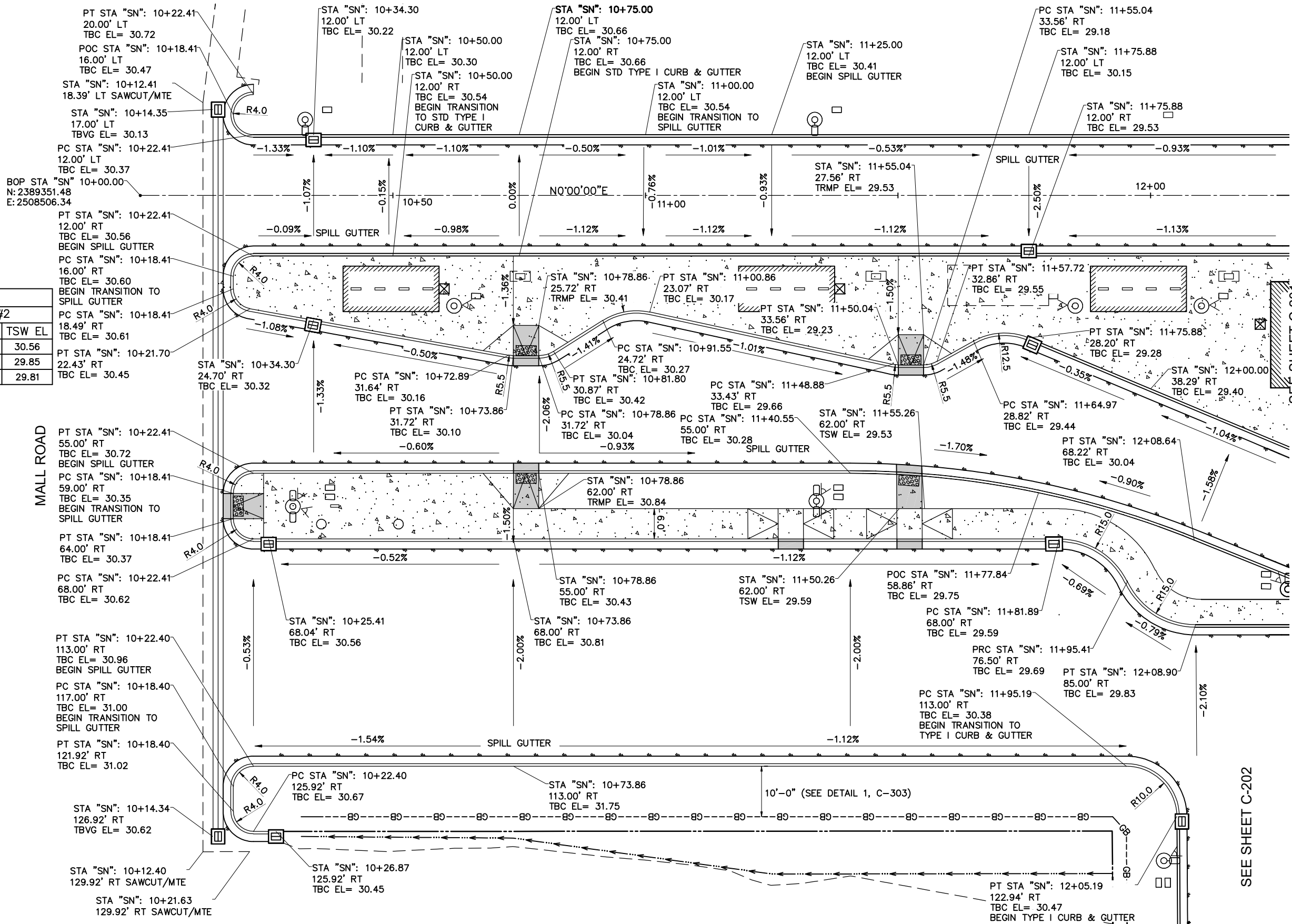
PROJECT	71014.01
DATE	3/31/2021
SHEET	C-202

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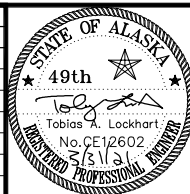
NOTES

1. STATIONS, OFFSETS AND ELEVATIONS ARE TO TOP BACK OF CURB(TBC) AND TOP BACK OF VALLEY GUTTER(TBVG).
2. THE CONCRETE SIDEWALK WITHIN THE ISLANDS SHALL BE CAST AT A UNIFORM GRADE BETWEEN THE TBC ON EITHER SIDE UNLESS OTHERWISE NOTED.
3. SLOPE ARROWS ARE ONLY INTENDED TO DEPICT THE GENERAL DIRECTION OF FLOW. GRADING SHALL BE BASED ON THE LAYOUT ELEVATIONS PROVIDED.
3. SHADED CURB AND GUTTER REPRESENTS FULLY DEPRESSED CURB CUTS. SHADED CONCRETE SIDEWALK REPRESENTS 6-INCH THICKNESS.

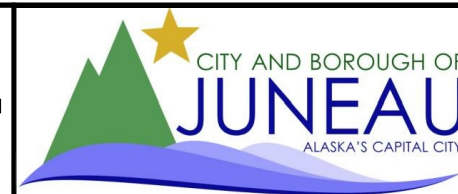
BUS SHELTER LAYOUT						
SHELTER	COLUMN #1			COLUMN #2		
	STA	OFF	TSW EL	STA	OFF	TSW EL
#1	10+40.30	18.50 RT	30.41	10+58.97	18.50 RT	30.56
#2	11+18.61	18.50 RT	30.03	11+37.28	18.50 RT	29.85
#3	11+88.25	18.50 RT	29.58	12+06.92	18.50 RT	29.81



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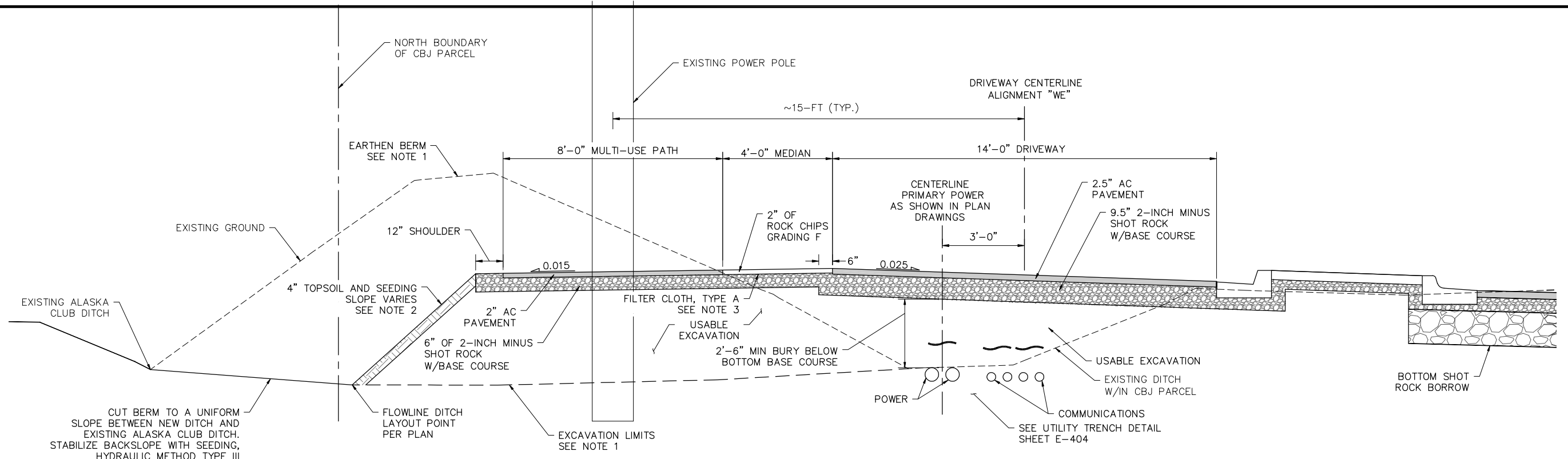


CAPITAL TRANSIT VALLEY TRANSFER STATION
 CONTRACT NO. BE20-268
 HORIZONTAL AND VERTICAL LAYOUT

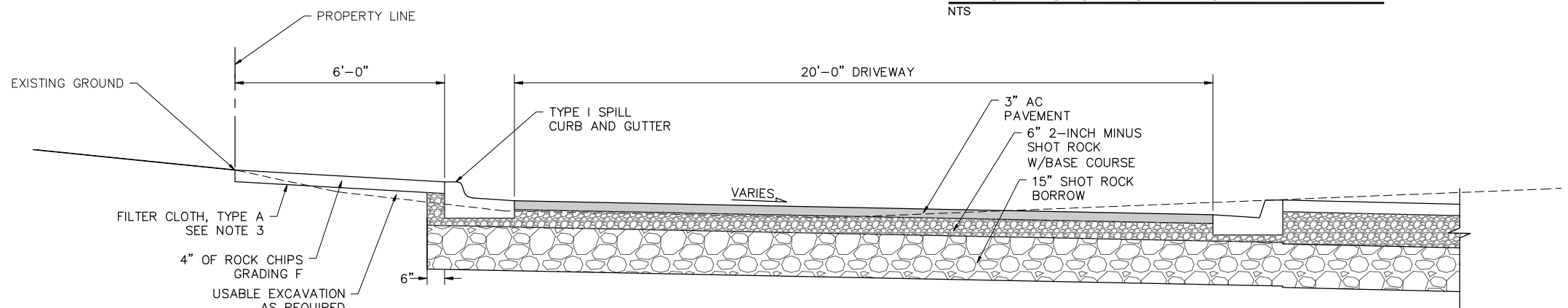
PROJECT	71014.01
DATE	3/31/2021
SHEET	C-203

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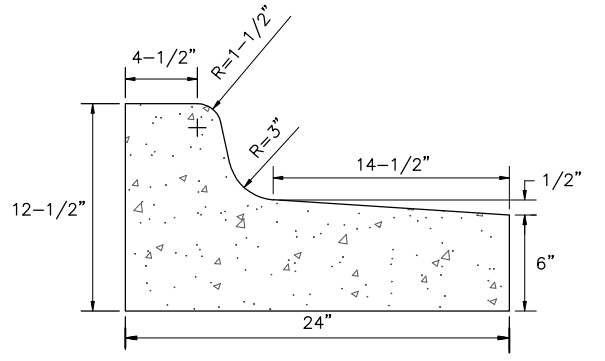
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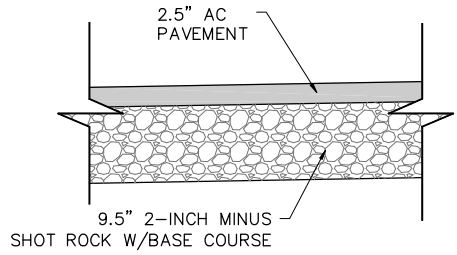
TYPICAL SECTION - EGRESS TO RIVERSIDE DRIVE
NTS



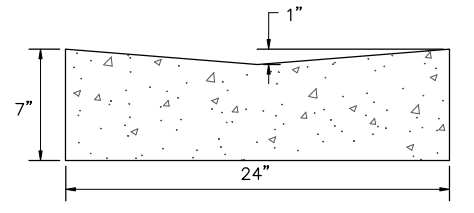
TYPICAL SECTION - BUS ENTRANCE
NTS



TYPE I SPILL CURB AND GUTTER
NTS



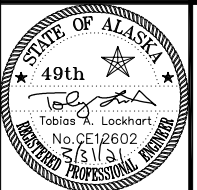
TYPICAL SECTION - PARKING LOT
NTS



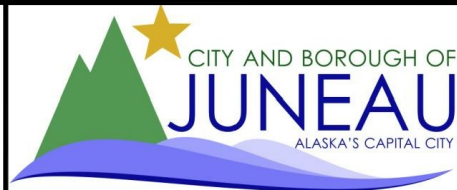
MODIFIED TYPE III VALLEY GUTTER
NTS

- NOTES:**
1. REMOVE AND DISPOSE OF ALL ORGANICS WITHIN THE EXISTING BERM ALONG THE NORTH BOUNDARY OF THE CBJ PARCEL BETWEEN THE EXISTING ALASKA CLUB DITCH AND THE DITCH WITHIN THE CBJ PARCEL AS DIRECTED BY THE ENGINEER. SEE G-003 FOR SEQUENCING REQUIREMENTS.
 2. FORESLOPE OF MULTI-USE PATH VARIES. GRADE TO A UNIFORM SLOPE BETWEEN EDGE OF PATH SHOULDER AND FLOWLINE DITCH.
 3. INSTALL FILTER CLOTH, TYPE A BENEATH ALL ROCK CHIPS.

REVISIONS			
REV	DATE	DESCRIPTION	BY



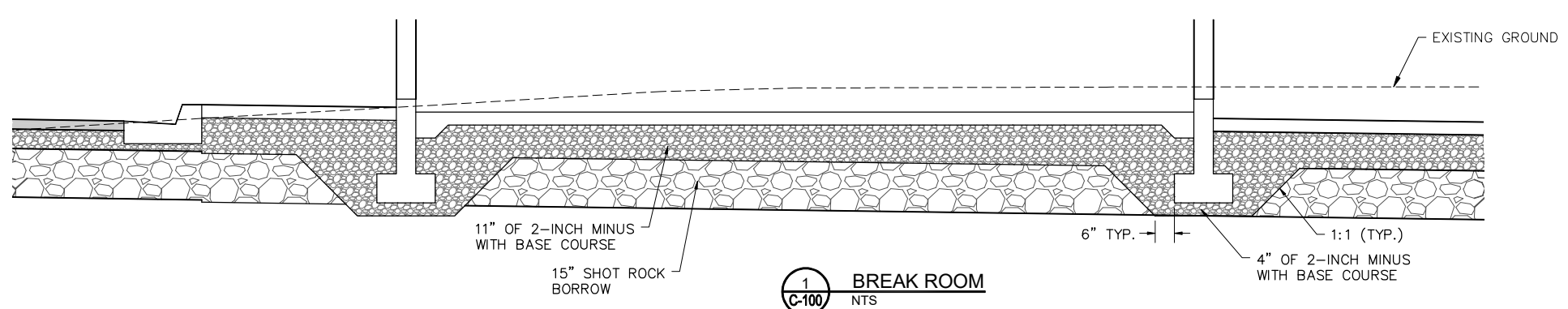
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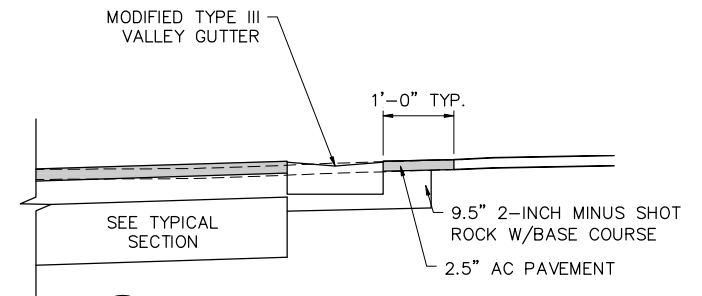
CAPITAL TRANSIT VALLEY TRANSFER STATION
CONTRACT NO. BE20-268
TYPICAL SECTIONS AND DETAILS

PROJECT	71014.01
DATE	3/31/2021
SHEET	C-301

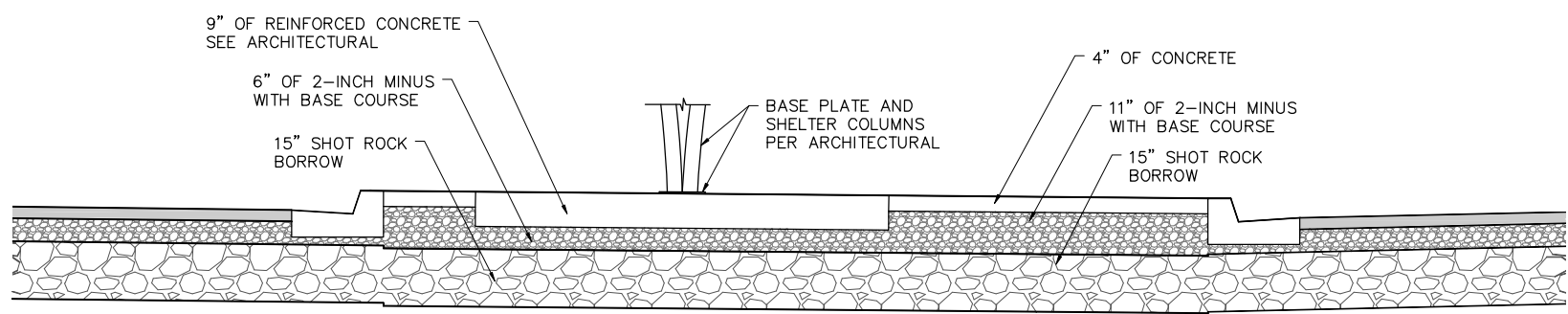
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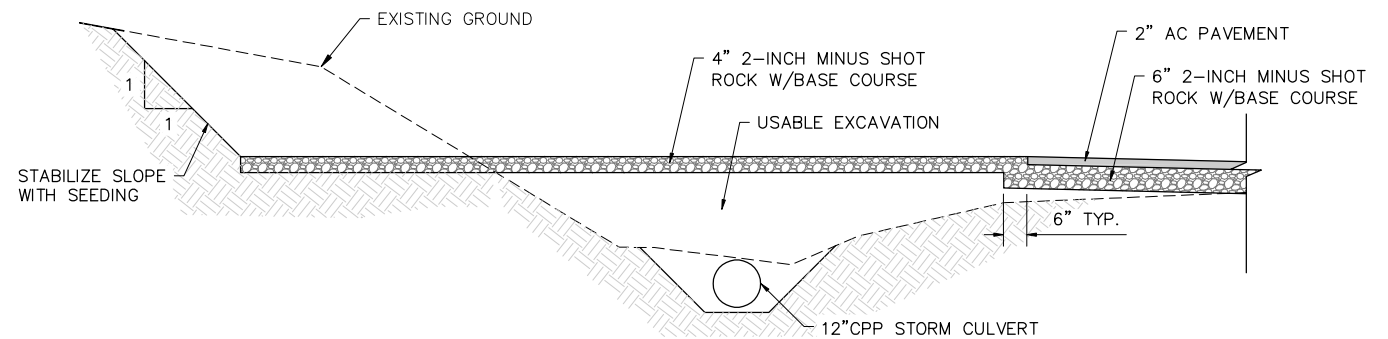
1 BREAK ROOM
C-100 NTS



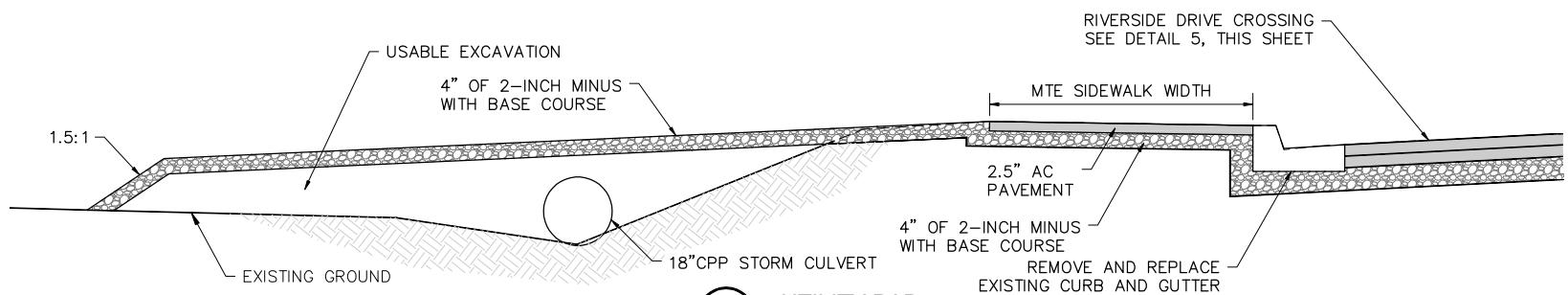
7 MALL ROAD CONNECTION
C-100 NTS



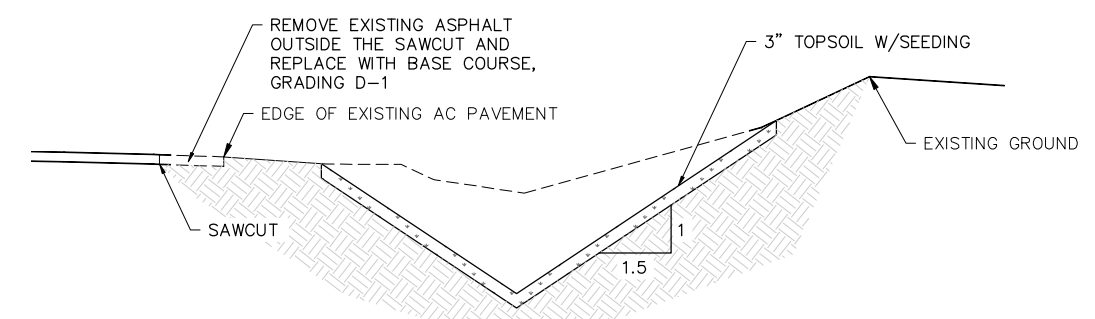
2 BUS SHELTER REINFORCED CONCRETE SECTION
C-100 NTS



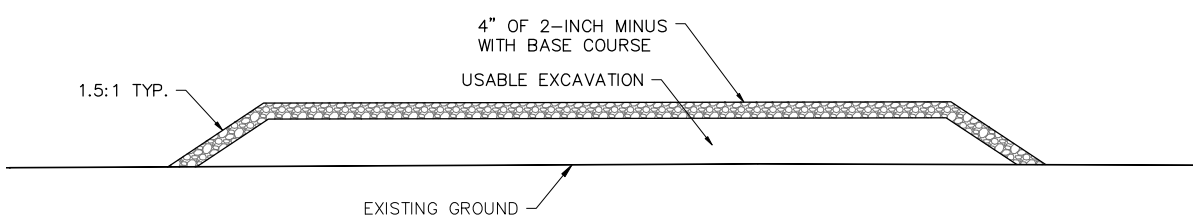
8 NAPA UTILITY PAD
C-100 NTS



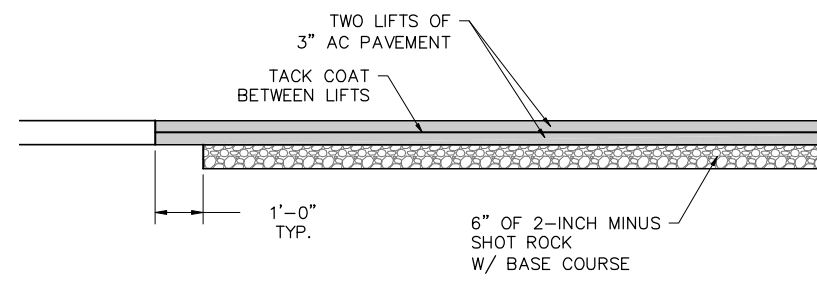
3 UTILITY PAD
C-101 NTS



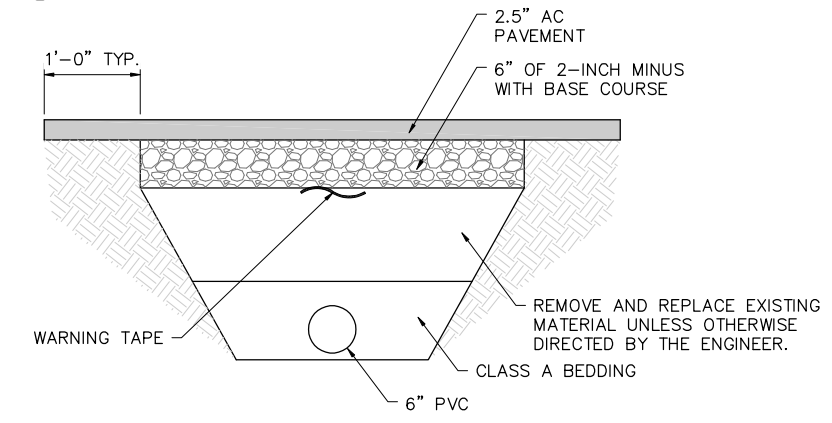
9 DITCH RE-GRADING
C-103 NTS



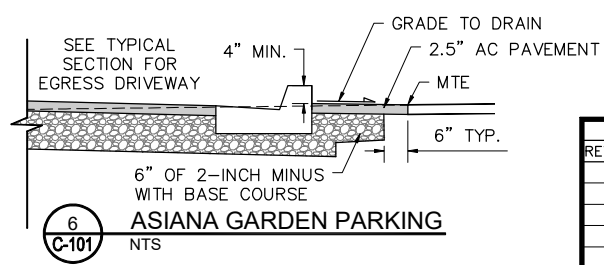
4 UTILITY PAD
C-101 NTS



5 RIVERSIDE DRIVE CROSSING
C-101 NTS

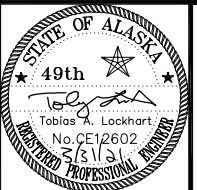


10 SEWER SERVICE TRENCH ACROSS ASIANA GARDENS
C-103 NTS

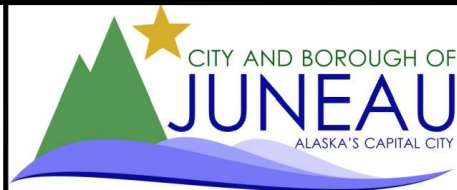


6 ASIANA GARDEN PARKING
C-101 NTS

REV	DATE	DESCRIPTION	BY



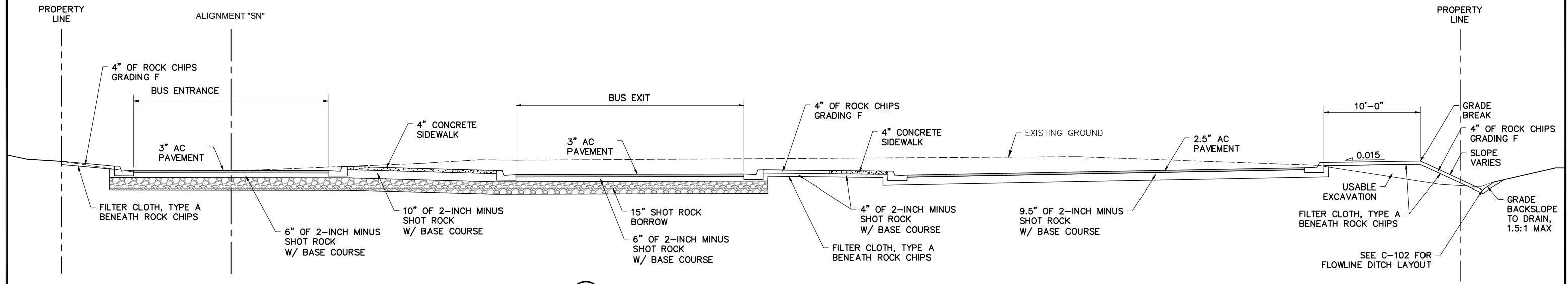
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CAPITAL TRANSIT VALLEY TRANSFER STATION
CONTRACT NO. BE20-268
TYPICAL SECTIONS AND DETAILS

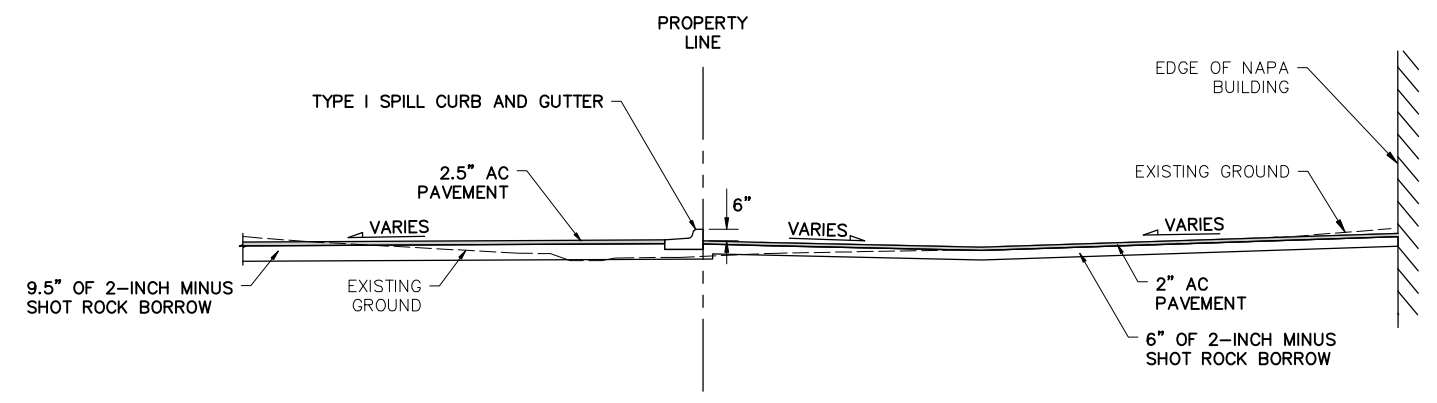
PROJECT	71014.01
DATE	3/31/2021
SHEET	C-302

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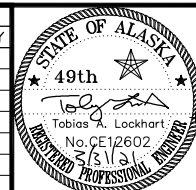
1 SITE SECTION (STA "SN" 10+90)
NTS

NOTES:
1. INSTALL FILTER CLOTH, TYPE A BENEATH ALL ROCK CHIPS.



2 SITE SECTION (STA "SN" 12+40)
NTS

REVISIONS			
REV	DATE	DESCRIPTION	BY



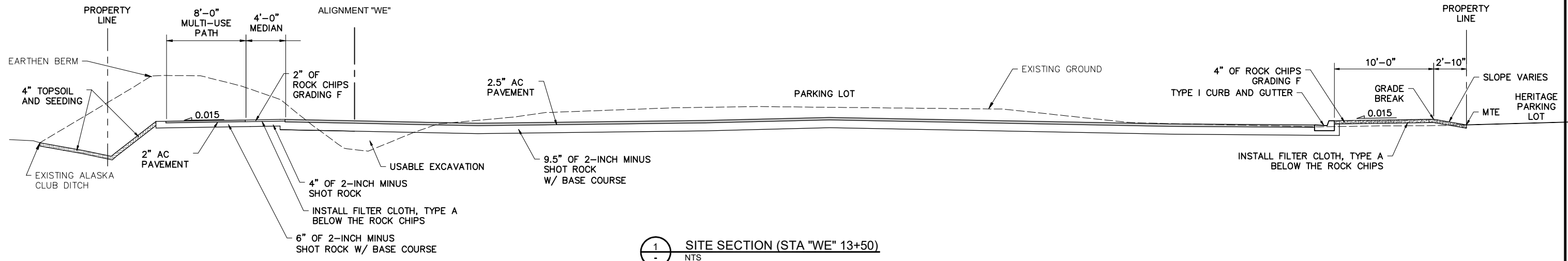
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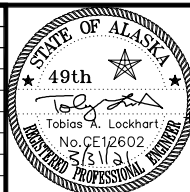
CAPITAL TRANSIT VALLEY TRANSFER STATION
CONTRACT NO. BE20-268
EAST-WEST SECTIONS

PROJECT	71014.01
DATE	3/31/2021
SHEET	C-303

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CAPITAL TRANSIT VALLEY TRANSFER STATION
CONTRACT NO. BE20-268
NORTH-SOUTH SECTIONS

PROJECT	71014.01
DATE	3/31/2021
SHEET	C-304

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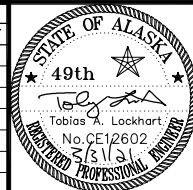
SIGN ASSEMBLY TABLE

POST/LUMINAIRE NO.	MUTCD DESIGNATION	DIMENSIONS LxH (in)	FACING	COMMENTS
1	R5-1	30x30	NW	INSTALL NEW SIGN ON NEW POST
	R1-1	30x30	SE	INSTALL NEW SIGN ON NEW POST
	R3-1	24X24	SE	INSTALL NEW SIGN ON NEW POST
2	R6-1	36x12	NE	INSTALL NEW SIGN ON NEW POST
	R6-1	36x12	SW	INSTALL NEW SIGN ON NEW POST
3	R7-2a	12X18	S	INSTALL NEW SIGN ON LUMINAIRE
4	R7-2a	12X18	S	INSTALL NEW SIGN ON LUMINAIRE
5	R7-2a	12X18	E	INSTALL NEW SIGN ON NEW POST
6	R7-2a	12X18	N	INSTALL NEW SIGN ON LUMINAIRE
7	R7-2a	12X18	N	INSTALL NEW SIGN ON LUMINAIRE
8	R1-1	30x30	N	INSTALL NEW SIGN ON NEW POST
	R5-1	30x30	S	INSTALL NEW SIGN ON NEW POST
9	CUSTOM	12X18	S	INSTALL NEW SIGN ON NEW POST
10	CUSTOM	12X18	S	INSTALL NEW SIGN ON NEW POST
11	R7-8	12X18	E	INSTALL NEW SIGN ON NEW POST
12	R7-2a	12X18	E	INSTALL NEW SIGN ON LUMINAIRE
13	CUSTOM	12X18	E	INSTALL NEW SIGN ON NEW POST
	CUSTOM	12X18	E	INSTALL NEW SIGN ON NEW POST
	CUSTOM	12X18	E	INSTALL NEW SIGN ON NEW POST
14	R1-1	30x30	N	INSTALL NEW SIGN ON NEW POST
	R5-1	30x30	S	INSTALL NEW SIGN ON NEW POST

NOTES

1. PAINTED TRAFFIC MARKINGS FOR PARKING LANES, CROSSWALKS, AND CURBS 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. SIGN PANELS TO BE ATTACHED TO LUMINAIRES WITH STAINLESS STEEL HARDWARE. WHERE SIGN PANELS ARE DESIGNATED FOR A NEW POST, INSTALL IN ACCORDANCE WITH STD 127A.
4. REPAINT MARKINGS ON RIVERSIDE AS NECESSARY FOR UTILITY CROSSING.

REV	DATE	DESCRIPTION	BY

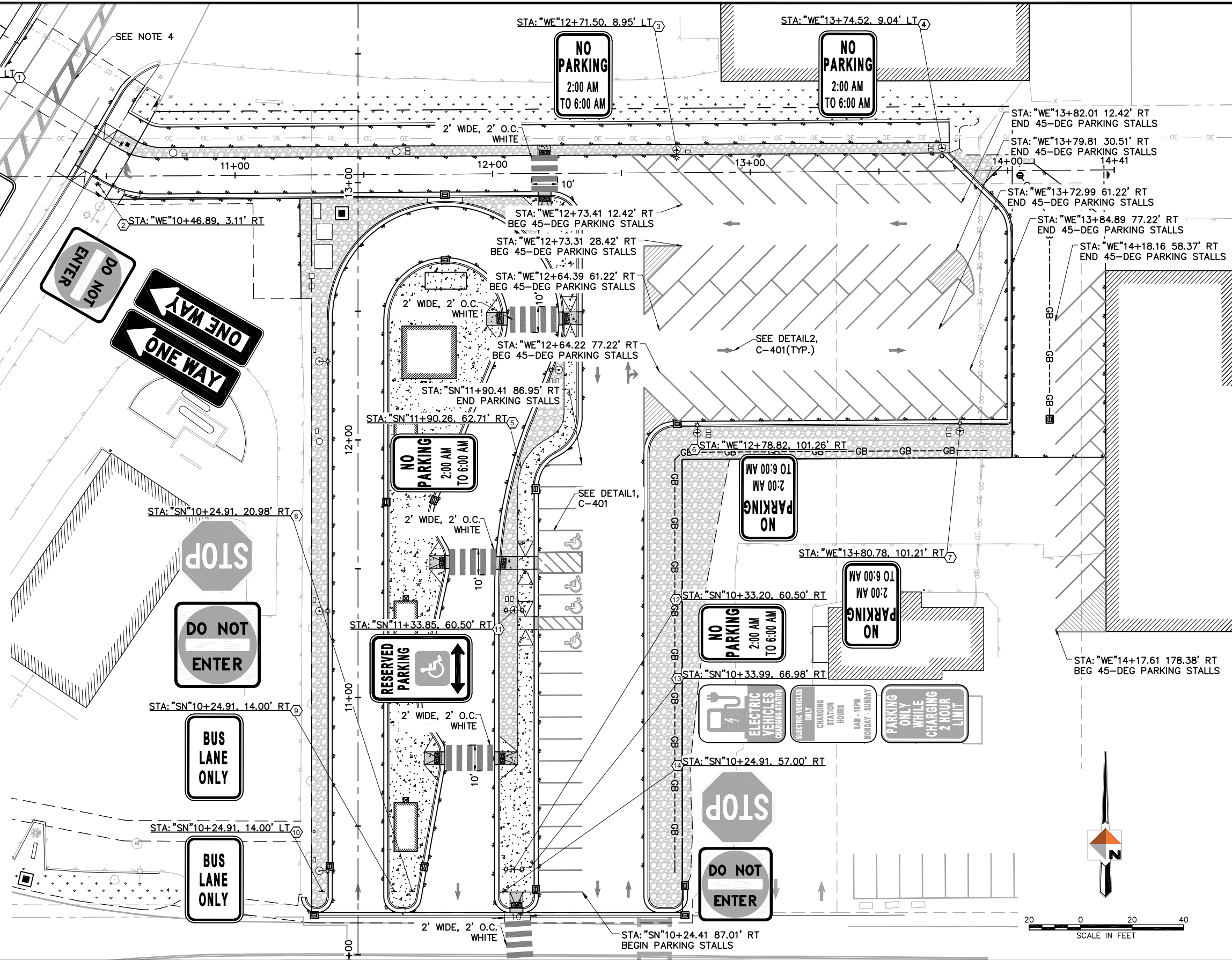


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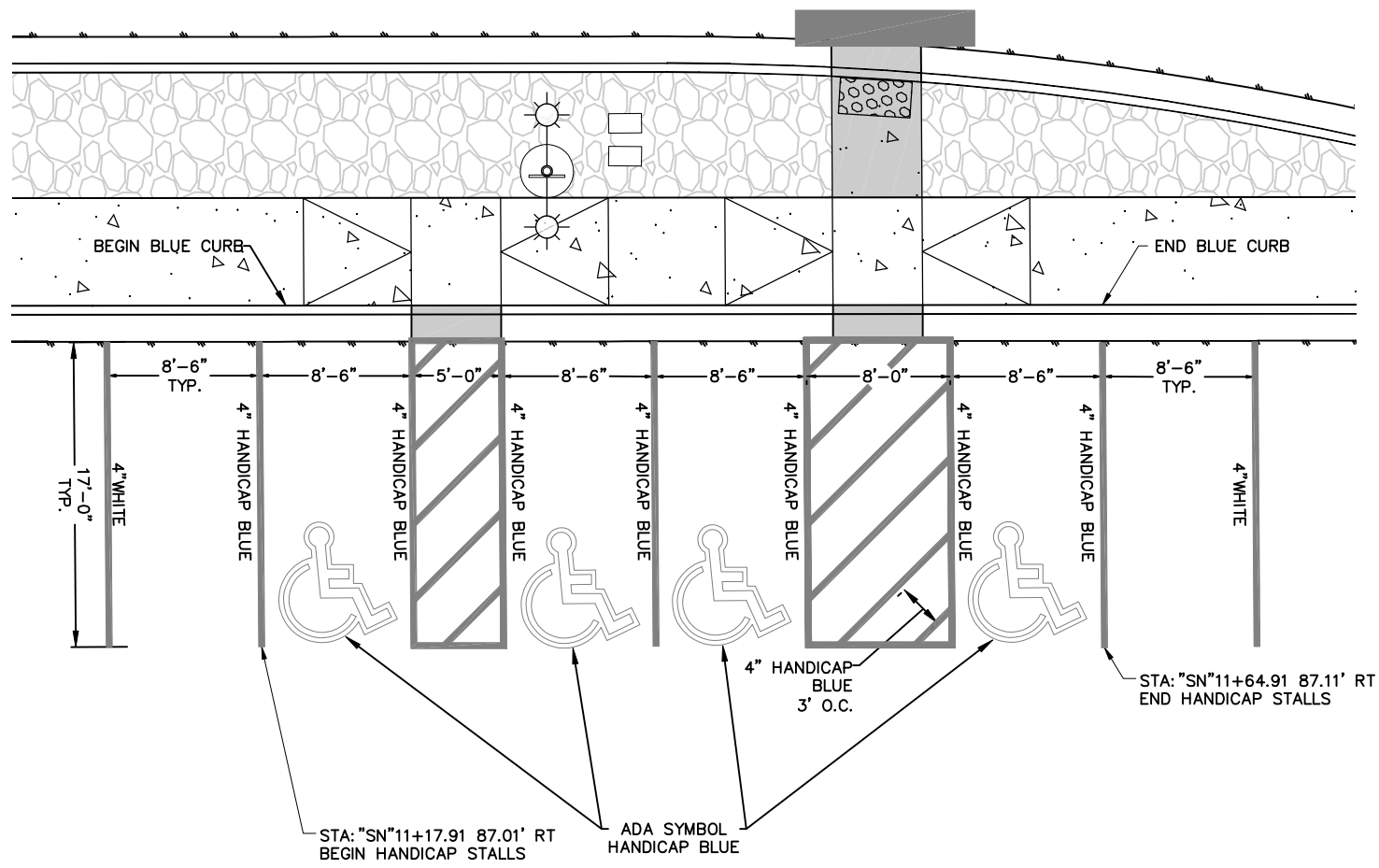


CAPITAL TRANSIT VALLEY TRANSFER STATION
 CONTRACT NO. BE20-268
 PAINTED TRAFFIC MARKINGS AND SIGN
 LAYOUT PLAN

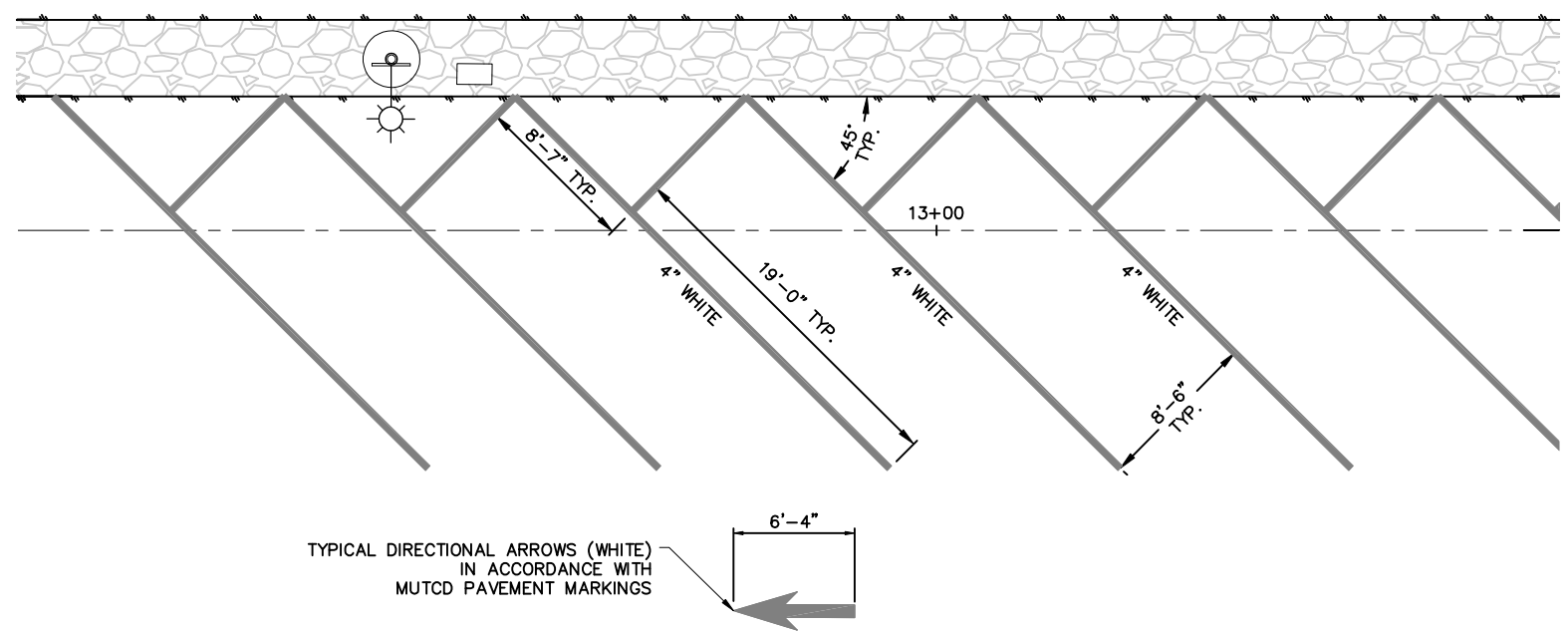
PROJECT	71014.01
DATE	3/31/2021
SHEET	C-400



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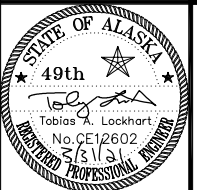


1 ADA STALLS
C-400 NTS

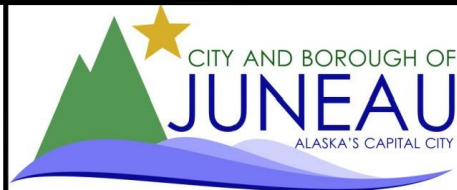


2 ANGLED STALLS AND DIRECTIONAL ARROWS
C-400 NTS

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CAPITAL TRANSIT VALLEY TRANSFER STATION
CONTRACT NO. BE20-268
PAINTED TRAFFIC MARKINGS DETAILS

PROJECT	71014.01
DATE	3/31/2021
SHEET	C-401

DOOR SCHEDULE

#	SIZE	DOOR		FRAME		HW GROUP	"U"	HEAD DETAIL	JAMB DETAIL	COMMENTS
		MTL	FIN	MTL	FIN					
101	1-3/4 x 3-0 x 7-0	FG	FF	MTL	FF	01	0.20	6/A-102	1/A-102	ELECTRIC LOCK & KEY PAD, ALWAYS LOCKED, CLOSER
102	1-3/4 x 3-0 x 7-0	FG	FF	FG	FF	02	-	2/A-102	2/A-102	PRIVACY FUNCTION
103	(PR) 1-3/4 x 3-0 x 7-0	FG	FF	FG	FF	03	0.20	6/A-102	6/A-102	*ACTIVE LEAF w/KEY LOCK & CLOSER, INACTIVE LEAF w/ ASTRAGAL & SURFACE BOLTS - WEATHERSTRIP & DRAINING THRESHOLD
104	1-3/4 x 3-0 x 7-0	FG	FF	FG	FF	04	0.20	6/A-102	6/A-102	ELECTRIC LOCK & KEY PAD, ALWAYS OPEN DURING SERVICE HOURS, PRIVACY FUNCTION, LOCKED DURING OFF HOURS, CLOSER

ROOM FINISH SCHEDULE

#	NAME	FLOOR		WALLS			CEILING		COMMENTS
		MTL	FIN	MTL	FIN	BASE	MTL	FIN	
100	JANITOR	CONC	SEAL	GWB/FRP*	PT	R	WD**	PV	*4"x4" FRP @ WEST & SOUTH WALLS @ SINK - **WD BEAMS & DECKING
101	BREAK ROOM	CONC	SEAL	GWB	PT	R	WD*	PV	*WD BEAMS & DECKING
102	TOILET	CONC	SEAL	GWB	PT	R	WD*	PV	*WD BEAMS & DECKING
103	STORAGE	CONC	SEAL	PLYWD	PT	R	WD*	PV	*WD BEAMS & DECKING
104	TOILET	CONC	SEAL	GWB/FRP	PT/-	R	WD*	PV	*WD BEAMS & DECKING

NOTE: ALL VISIBLE METAL STRUCTURAL CONNECTORS & FASTENERS TO BE PAINTED

SCHEDULE ABBREVIATIONS

CONC	CONCRETE	PR	PAIR
FF	FACTORY FINISH	PT	PAINT / PRESERVATIVE TREATED
FIN	FINISH	PV	POLYURETHANE VARNISH
FG	FIBERGLASS	R	RUBBER / RESILIENT
FRP	FIBERGLASS REINFORCED PLASTIC	SS	STAINLESS STEEL
GWB	GYPSUM WALL BOARD	SEAL	CLEAR SEALER
GALV	GALVANIZED	WD	WOOD, PLYWOOD
MTL	MATERIAL / METAL		

APPLICABLE CODES

- 2012 INTERNATIONAL BUILDING CODE
- 2012 UNIFORM PLUMBING CODE
- 2012 INTERNATIONAL MECHANICAL CODE
- 2011 NATIONAL ELECTRICAL CODE
- 2012 INTERNATIONAL FIRE CODE

BUILDING INFORMATION

- FLOOR AREA: 431 SF
- OCCUPANCY CLASSIFICATION: B - BUSINESS USE
- CONSTRUCTION TYPE: V - B
- FIRE SPRINKLERS: NONE

THERMAL ENVELOPE - ENERGY

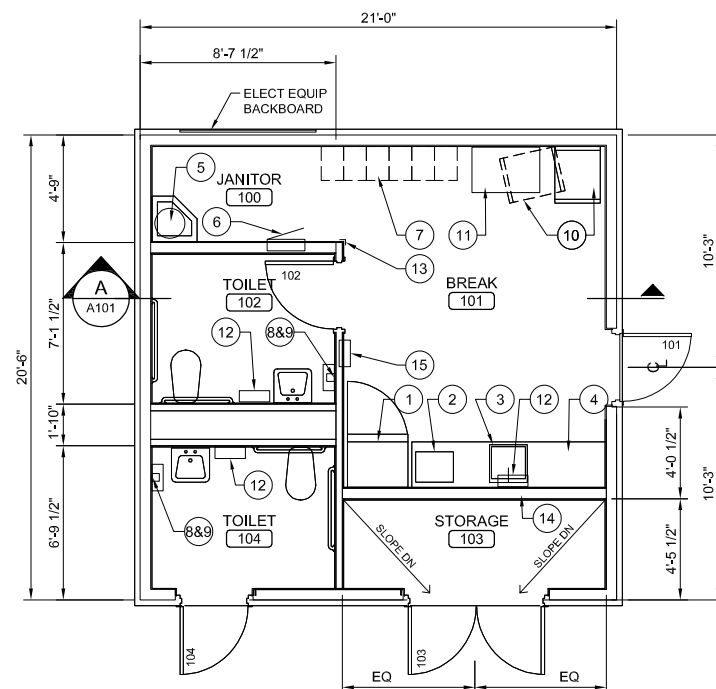
ITEM	REQUIRED	PROVIDED
• ROOF INSULATION:	R-30d	R-30d
• WALL INSULATION:	R-11 + R-10ci	R-15+R-10ci
• UNHEATED SLAB ON GRADE:	R-10 EDGE	R-10 EDGE
• OPAQUE DOORS:	U=0.7 (max)	U=0.2

GENERAL NOTES

- FIELD VERIFY ALL EXISTING CONDITIONS AND CONNECTION POINTS PRIOR TO STARTING WORK. THE CONTRACTOR SHALL COORDINATE ALL PORTIONS OF WORK AS DESCRIBED IN THE CONTRACT DOCUMENTS. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND RELATIONS TO OTHER WORK. NOTIFY THE PROJECT REPRESENTATIVE FOR RESOLUTION OF ALL DISCREPANCIES PRIOR TO BEGINNING THE WORK.
- COORDINATES AND WRITTEN DIMENSIONS SHALL PREVAIL. DO NOT SCALE DRAWING.
- CONTRACTOR TO USE ALL APPROPRIATE DUST AND MUD CONTROL METHODS. COORDINATE DUST AND MUD CONTAINMENT EFFORTS WITH PROJECT REPRESENTATIVE PRIOR TO INITIATING WORK.
- MECHANICAL, ELECTRICAL, AND PLUMBING INFORMATION SHOWN ON THE ARCHITECTURAL DRAWINGS IS SHOWN FOR LOCATION PURPOSES ONLY. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS. SEE COORDINATING DISCIPLINE FOR SPECIFICATIONS.
- ALL WOOD IN CONTACT WITH CONCRETE SHALL BE PRESSURE/PRESERVATIVE-TREATED. INTERIOR PLYWOOD ELECTRICAL EQUIPMENT MOUNTING PANELS SHALL BE FIRE-TREATED.
- SEAL AROUND ALL WALL PENETRATIONS & ROOF TO WALL. FOLLOW METAL WALL PANEL MANUFACTURER'S STANDARD DETAILS FOR PANEL CLOSURES AT PENETRATIONS.

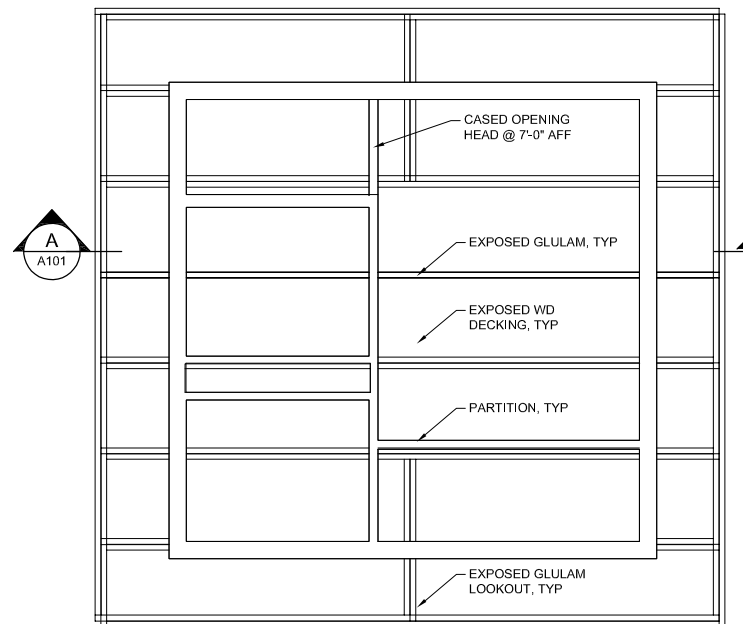
KEYED NOTES

- REFRIGERATOR
- COUNTERTOP MICROWAVE
- SINGLE COMPARTMENT ADA SINK
- SOLID SURFACE COUNTERTOP & PLAM-FACED CABINETS
- FLOOR MOP SINK w/ HW HEATER ABOVE
- ELECT PANEL - FLUSH MOUNT
- FUTURE DOUBLE TIER LOCKERS (N.I.C.)
- WALL-MOUNT SS WASTE RECEPTACLE
- WALL-MOUNT NO TOUCH FOAM SOAP DISPENSER - BATTERY (MOUNT ABOVE WASTE RECEPTACLE)
- WALL-MOUNT I.T. RACK - REFER TO ELECTRICAL
- WALL-HUNG COUNTERTOP DESK
- WALL-MOUNT NO TOUCH ROLL PAPER TOWEL DISPENSER
- 2-1/2" x 2-1/2" x 48" STAINLESS STEEL CORNER GUARD ABOVE BASE
- 2x6 PLUMBING WALL
- SEMI-RECESSED FIRE EXTINGUISHER CABINET

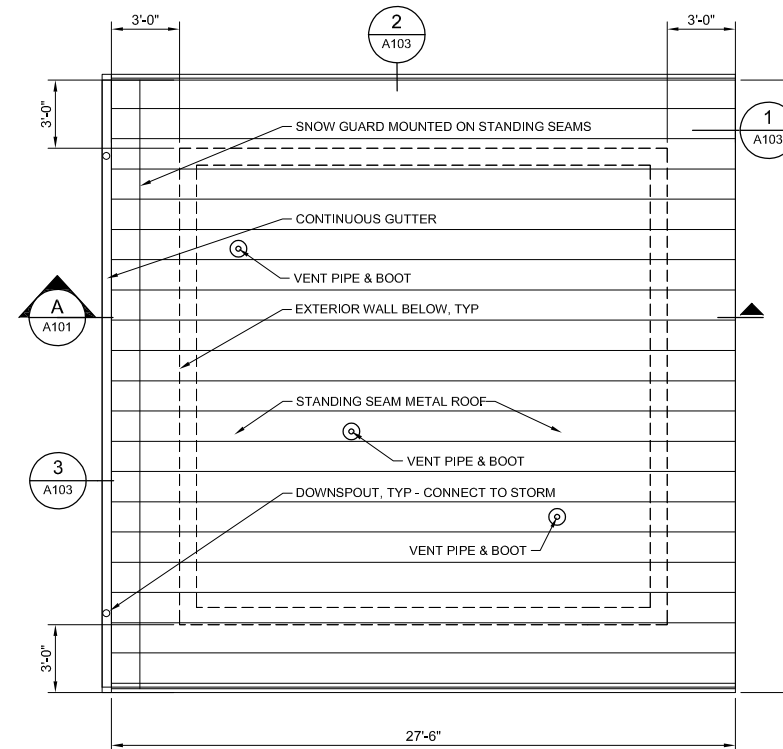


NOTE: REFER TO SHEET A-102 FOR INTERIOR ELEVATIONS OF BREAK ROOM & TOILET ROOMS

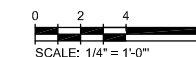
1 FLOOR PLAN
A-100 1/4" = 1'-0"



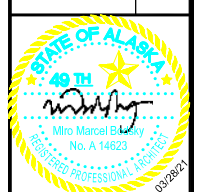
2 REFLECTED CEILING PLAN
A-100 1/4" = 1'-0"



3 ROOF PLAN
A-100 1/4" = 1'-0"



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MARK	DATE	DESCRIPTION
	03/26/21	

CITY AND BOROUGH OF JUNEAU, ALASKA
CAPITAL TRANSIT VALLEY TRANSFER STATION
CONTRACT NO. BE20-268
BREAKROOM
PLANS, NOTES
AND SCHEDULES

Project No.: 200-67908-20001
Designed By: MMB
Drawn By: TR
Checked By: MMB

A-100

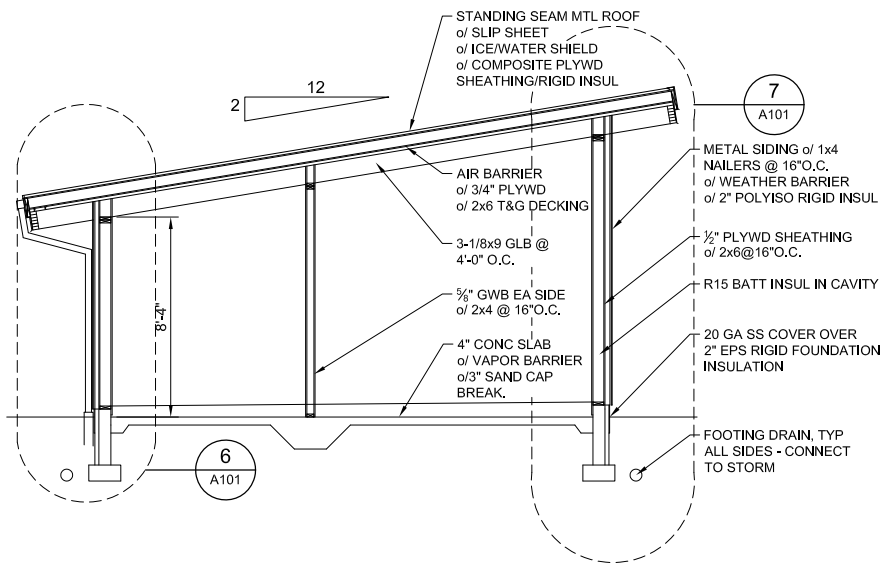
Bar Measures 1 Inch

3/28/2021 5:12:25 PM - I:\LOCAL\PROJECTS\SEATTLE\67908\200-67908-20001\CAD\SHEETFILES\A-100 - PLANS AND SCHEDULES.DWG - ROTH, THOMAS

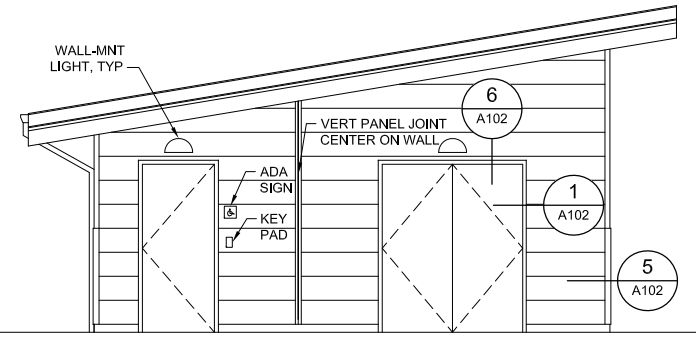
Copyright: Tetra Tech

WINDOW SCHEDULE

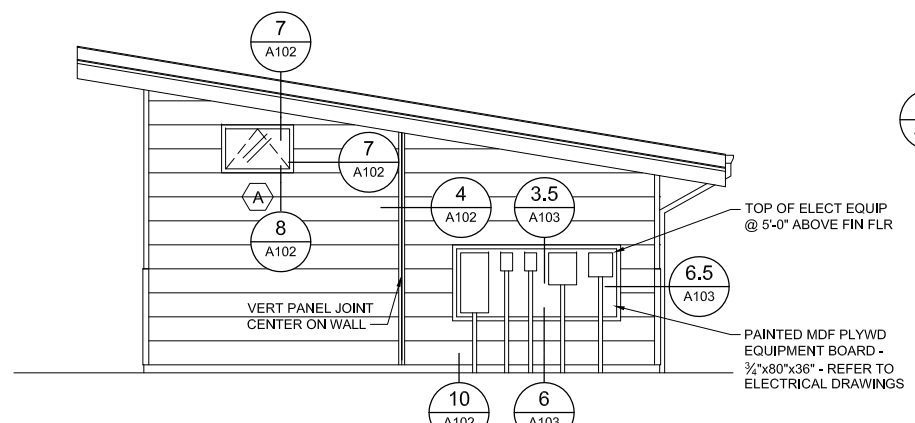
#	SIZE	WINDOW		FUNCTION	MAX "U"	GLASS	HEAD DETAIL	JAMB DETAIL	SILL DETAIL	OPERATION	COMMENTS
		MTL	FIN								
A	+/- 3'-0" x 2'-0"	FG	FAC	AWNING	0.30	CLEAR LOW-E INSUL ARGON	3/A-102	7/A-102	8/A-102	POLE CRANK	*ADJUST HEIGHT TO COURSE WITH TRIMS -LIMIT OPENING SWING TO 8"



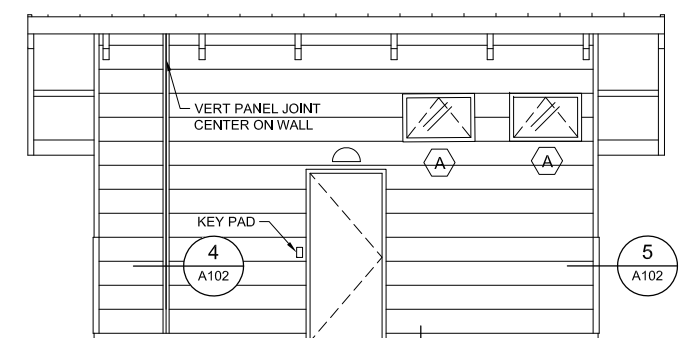
A BUILDING SECTION LOOKING NORTH
A-100 1/4" = 1'-0"



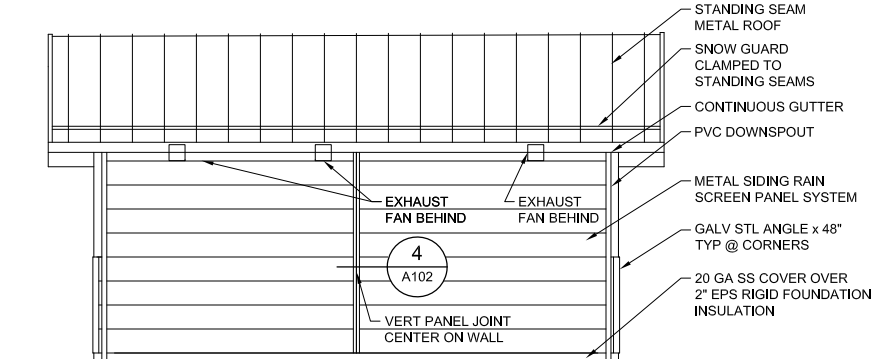
1 SOUTH ELEVATION
A-101 1/4" = 1'-0"



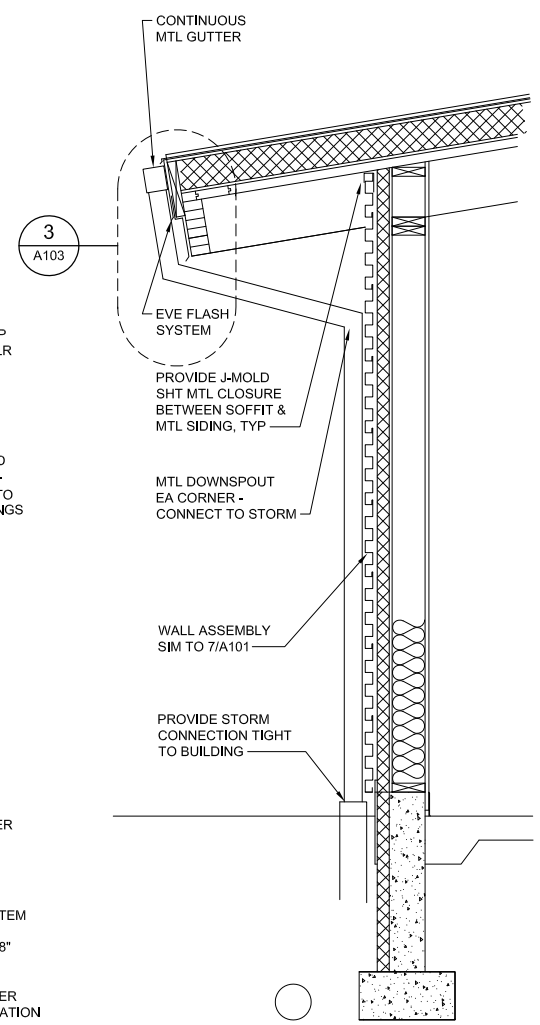
2 NORTH ELEVATION
A-101 1/4" = 1'-0"



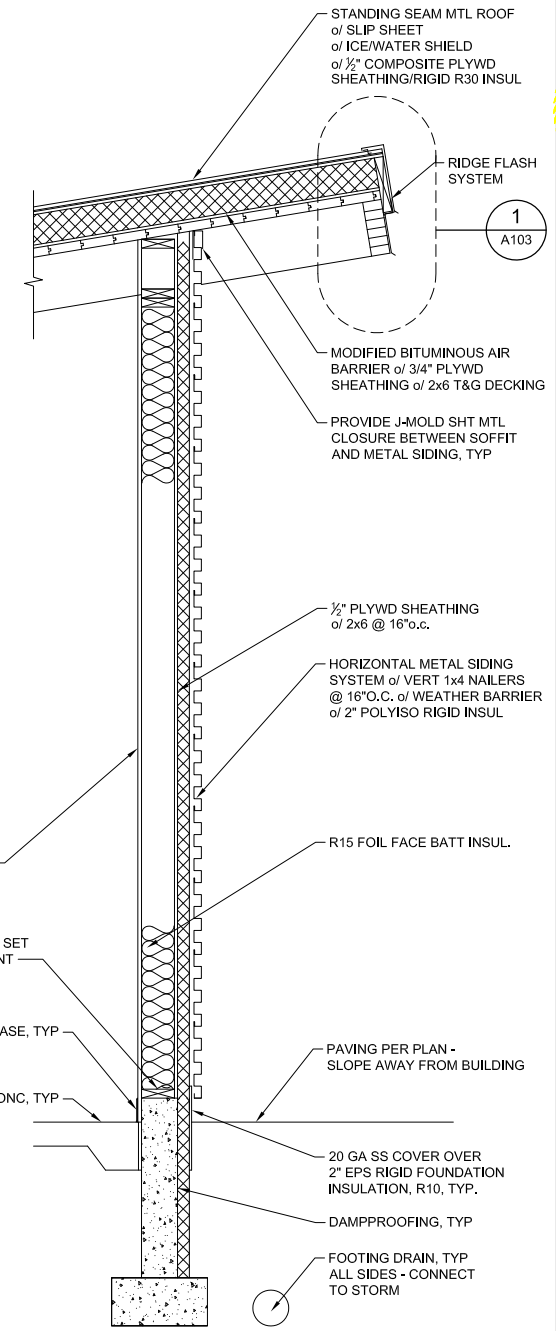
3 EAST ELEVATION
A-101 1/4" = 1'-0"



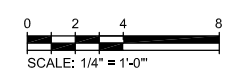
4 WEST ELEVATION
A-101 1/4" = 1'-0"



6 WALL SECTION
A-101 3/4" = 1'-0"



7 WALL SECTION
A-101 3/4" = 1'-0"



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STATE OF ALASKA
49th
Miro Marcel Blosky
No. A 14823
PROFESSIONAL ENGINEER
02/28/21

CITY AND BOROUGH OF JUNEAU
ALASKA'S CAPITAL CITY

BY: [Signature]
DATE: 03/28/21
MARK: [Signature]

CITY AND BOROUGH OF JUNEAU
JUNEAU, AK
CAPITAL TRANSIT VALLEY TRANSFER STATION
CONTRACT NO. BE20-288
BREAKROOM
EXTERIOR ELEVATIONS AND BUILDING SECTIONS

Project No.: 200-67908-20001
Designed By: MMB
Drawn By: TR
Checked By: MMB

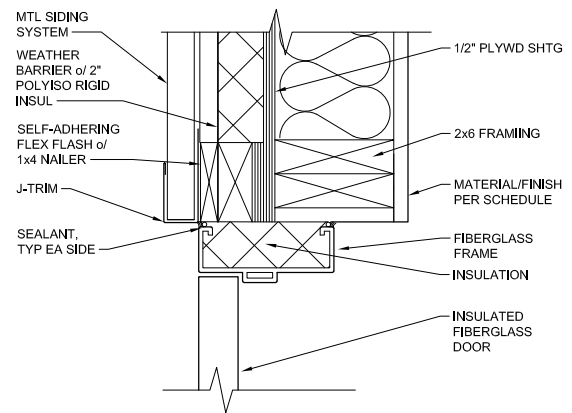
A-101

Bar Measures 1 inch

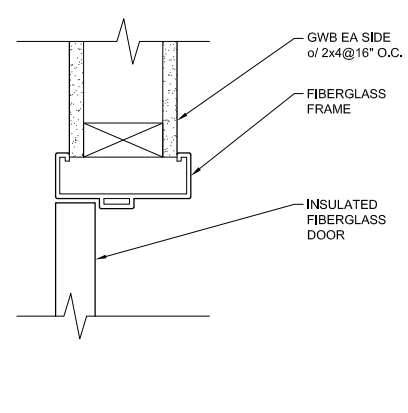
Copyright: Tetra Tech

3/28/2021 5:53:45 PM - N:\LOCAL\PROJECTS\SEATTLE\67908\200-67908-20001\CAD\SHHEETS\A-101 EXTERIOR ELEVATIONS AND SECTIONS.DWG - ROTH, THOMAS

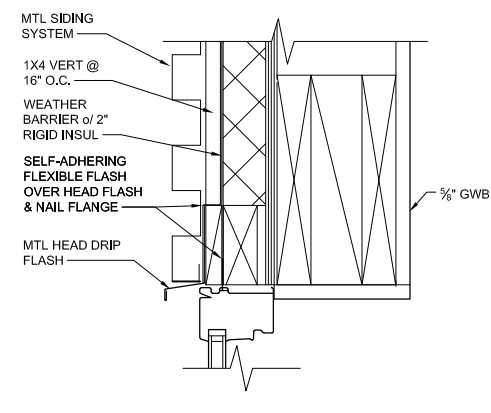
3/28/2021 5:31:25 PM - \\TTL\LOCAL\PROJECTS\SEATTLE\67906-20001\CAD\SHEDTILES\A-102 - INTERIOR ELEVATIONS AND DETAILS.DWG - ROTH, THOMAS



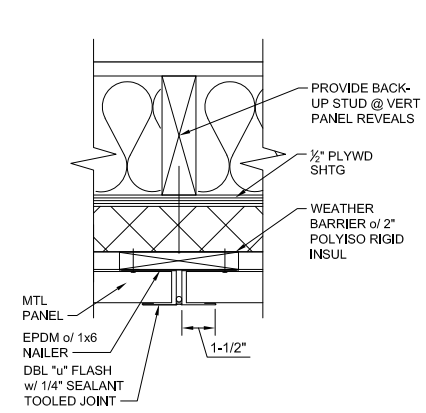
1 EXT HM DOOR JAMB
A103 3\"/>



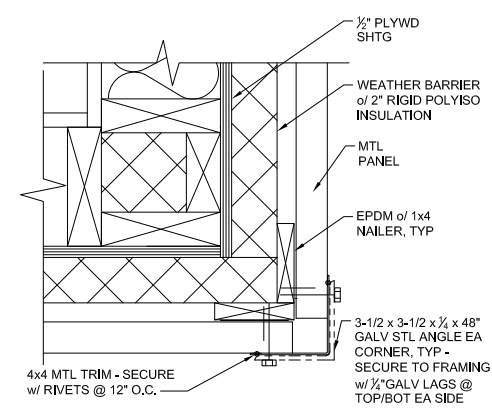
2 INT HM DOOR JAMB - HEAD SIM
A103 3\"/>



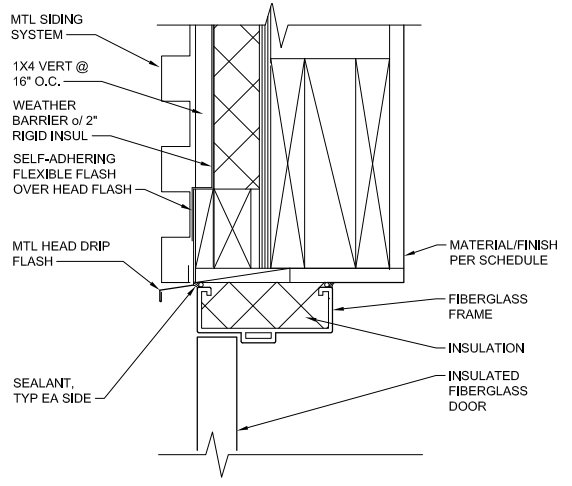
3 WINDOW HEAD
A103 3\"/>



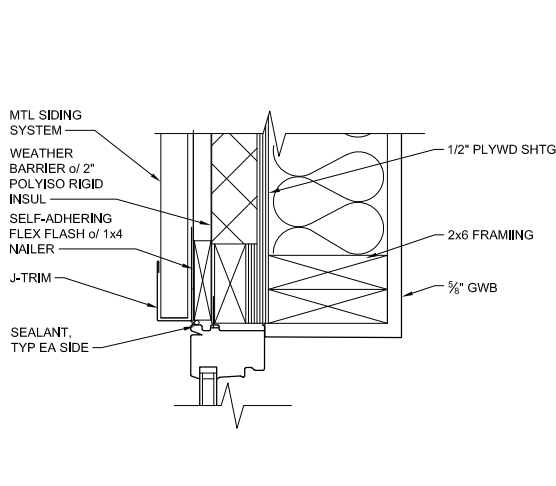
4 PANEL VERT REVEAL
A103 3\"/>



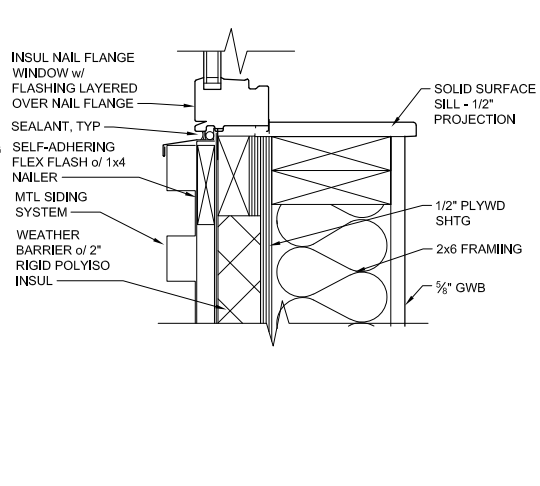
5 PANEL CORNER
A103 3\"/>



6 HM DOOR JAMB/HEAD
A103 3\"/>



7 WINDOW JAMB
A103 3\"/>

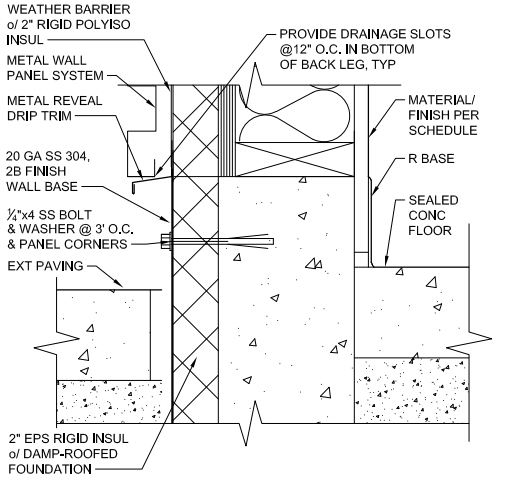


8 WINDOW SILL
A103 3\"/>

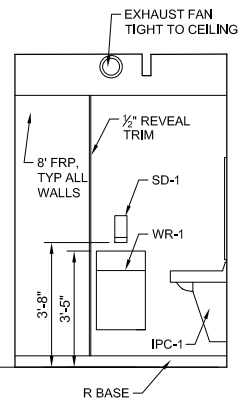
SIDING NOTES

1. CONTRACTOR MAY INSTALL WOOD VERTICAL NAILERS INDICATED, VERTICAL GALVANIZED HAT CHANNELS, OR MANUFACTURER'S STANDARD ATTACHMENT HARDWARE AS SHOWN IN INSTALLATION INSTRUCTIONS.
2. REFER TO MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR DETAILS NOT ILLUSTRATED.
3. ISOLATE METALS FROM WOOD WITH EPDM SHEET OR WEATHER BARRIER. EXPOSED METAL FLASHING EDGES SHALL BE HEMMED.
4. SS WALL BASE SHALL EXTEND AT A MINIMUM FROM TOP OF CURB TO 2\"/>

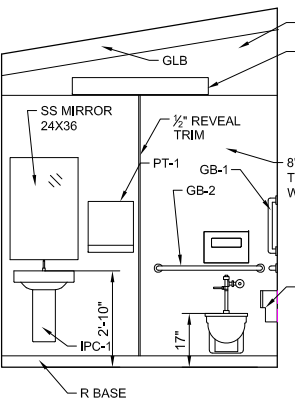
9 NOTES
A103



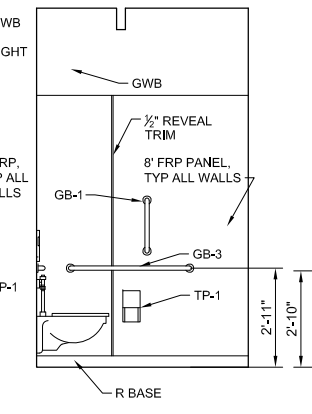
10 WALL PANEL BASE
A103 3\"/>



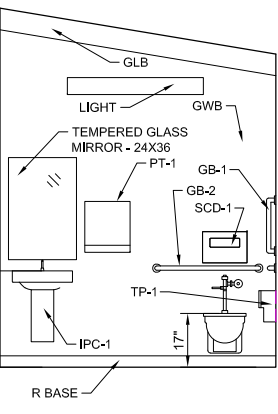
1 TOILET 104 WEST
3/8\"/>



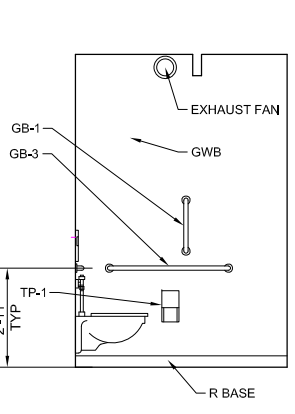
2 TOILET 104 NORTH
3/8\"/>



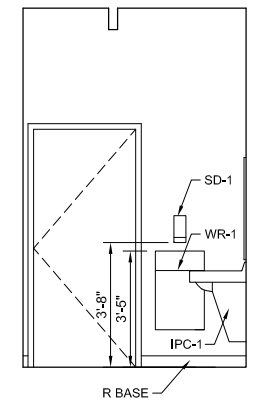
3 TOILET 104 EAST
3/8\"/>



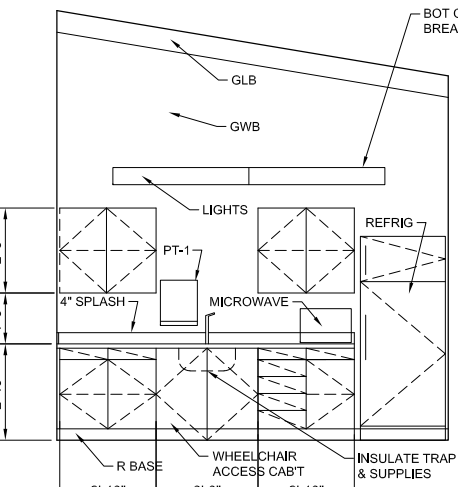
4 TOILET 102 SOUTH
3/8\"/>



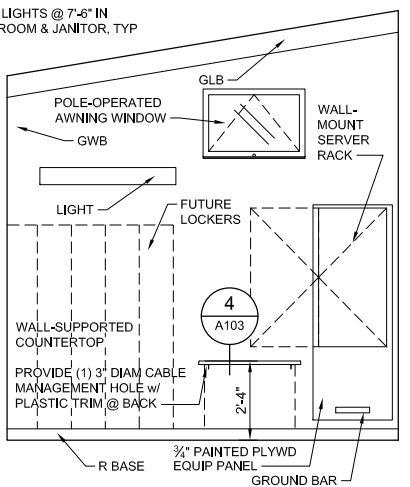
5 TOILET 102 - WEST
3/8\"/>



6 TOILET 102 - EAST
3/8\"/>



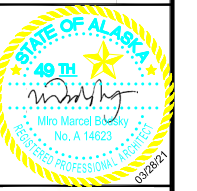
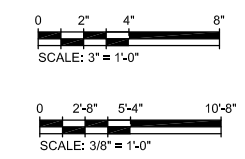
7 BREAK 101 - SOUTH
3/8\"/>



8 BREAK 101 - NORTH
3/8\"/>

ELEVATION NOTES

- | | |
|-------|---|
| GB-1 | 18\"/> |
| GB-2 | 36\"/> |
| GB-3 | 42\"/> |
| PT-1 | PAPER TOWEL DISPENSER - NO TOUCH ROLL - BATTERY |
| SCD-1 | SEAT COVER DISPENSER |
| SD-1 | SOAP DISPENSER - FOAM NO TOUCH - BATTERY |
| TP-1 | 2 ROLL TP DISPENSER |
| WR-1 | RECESSED WASTE RECEPTACLE |
| IPC-1 | INSULATED PIPE COVER |



MARK	DATE	DESCRIPTION
03/28/21		

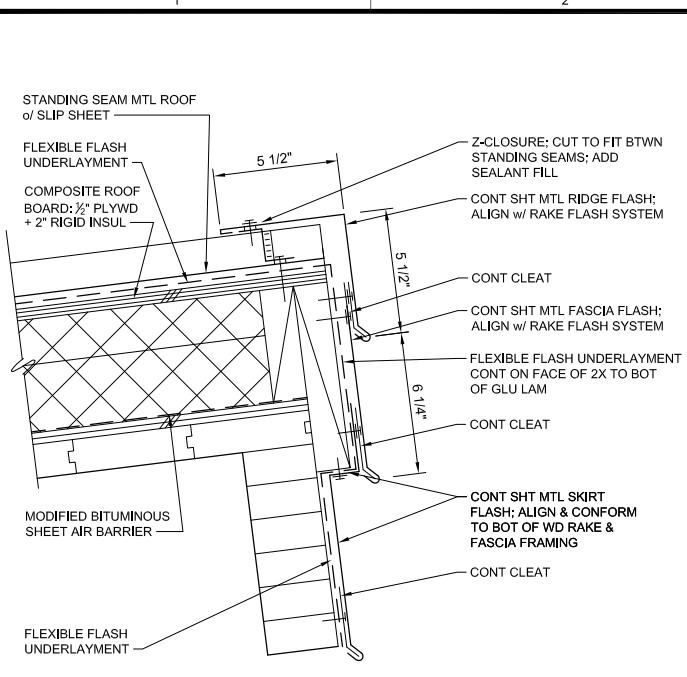
CITY AND BOROUGH OF JUNEAU
JUNEAU, AK
CAPITAL TRANSIT VALLEY TRANSFER STATION
CONTRACT NO. BE20-268
BREAKROOM
INTERIOR ELEVATIONS AND DETAILS

Project No.: 200-67908-20001
Designed By: MMB
Drawn By: TR
Checked By: MMB

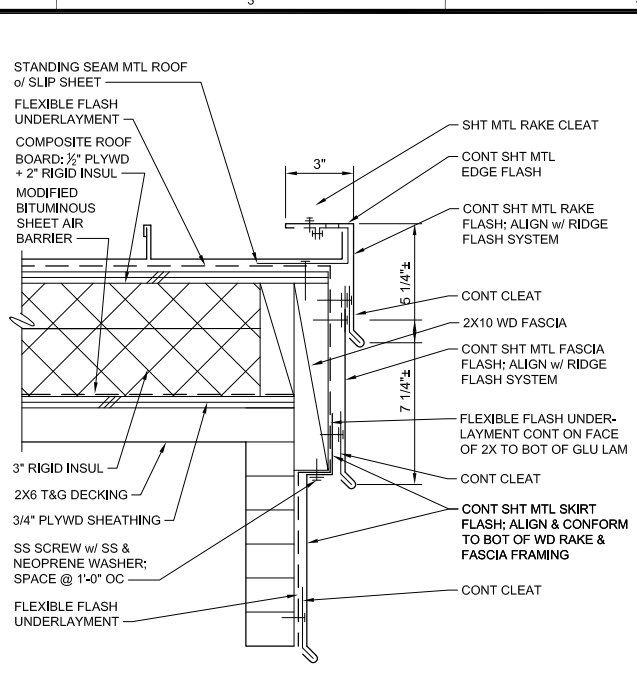
A-102

Copyright: Tetra Tech

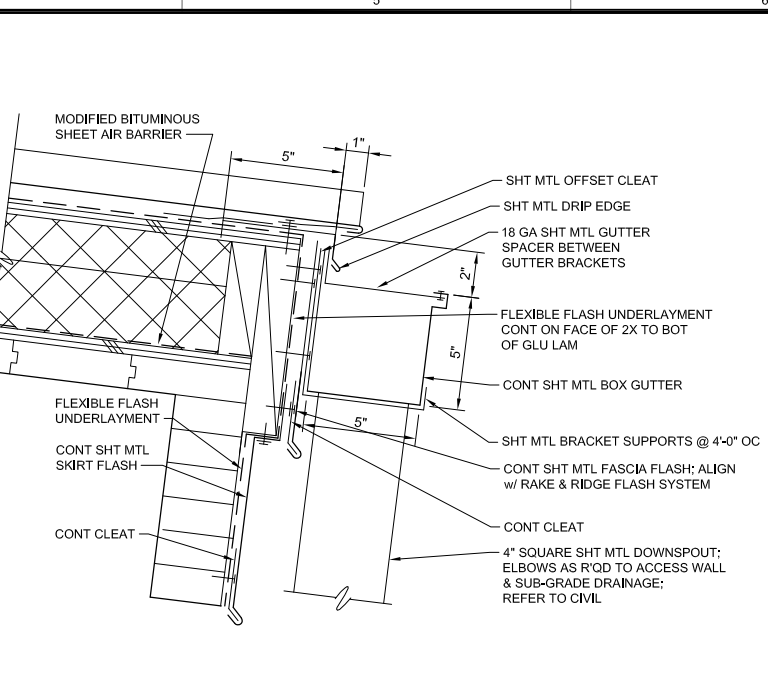
Bar Measures 1 Inch



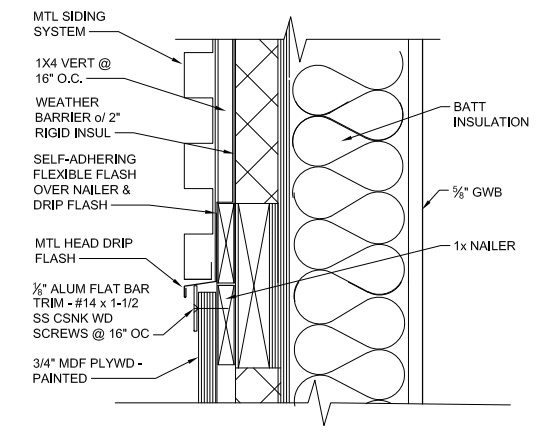
1 ROOF RIDGE DETAIL
 A101 3" = 1'-0"



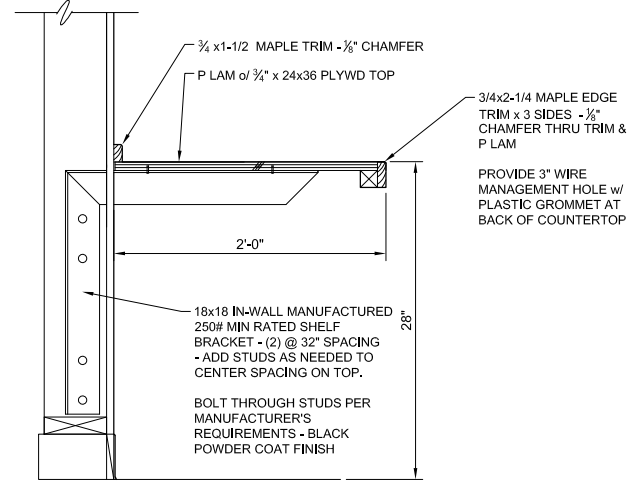
2 ROOF RAKE DETAIL
 A101 3" = 1'-0"



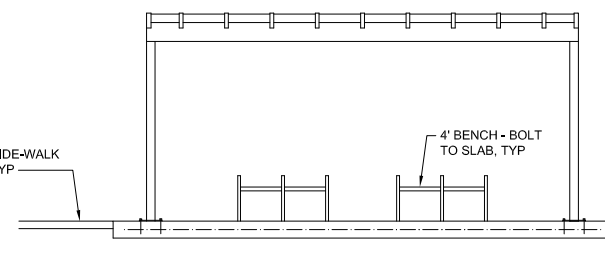
3 ROOF EAVE DETAIL
 A101 3" = 1'-0"
 SCALE: 3" = 1'-0"



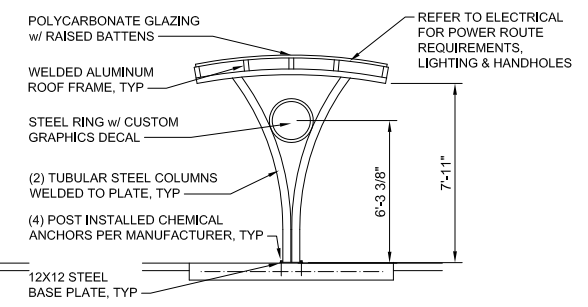
3.5 ELECT EQUIP BACKER HEAD
 A101 3" = 1'-0"



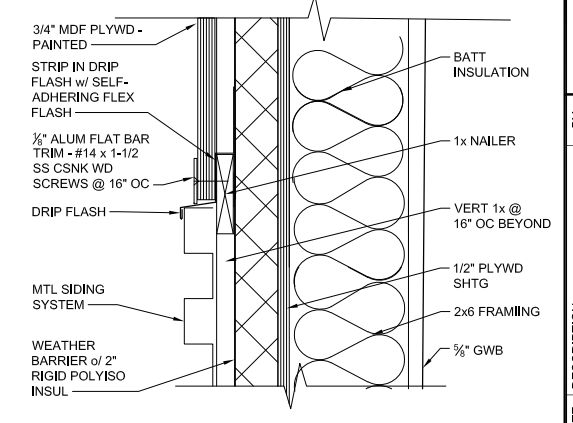
4 WALL SUPPORTED DESK TOP
 A102 1-1/2" = 1'-0"



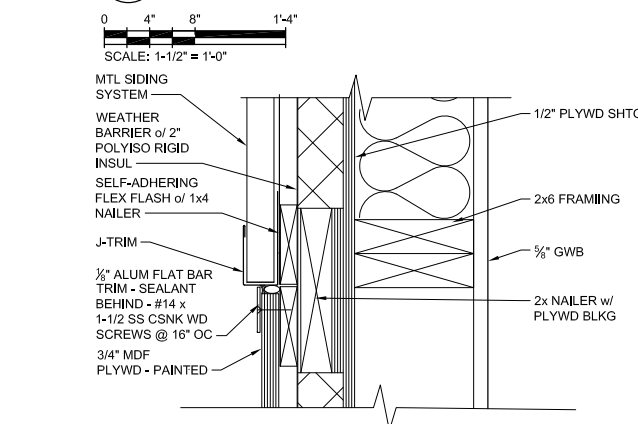
4.5 BUS SHELTER EXTERIOR ELEVATION
 A103 1/4" = 1'-0"



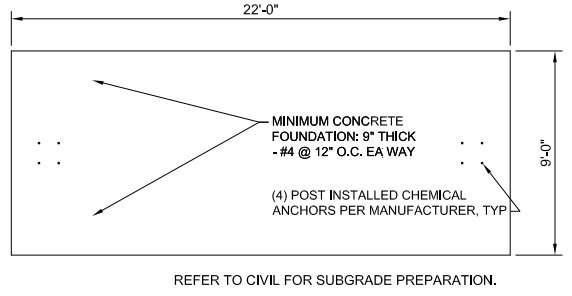
5 BUS SHELTER EXTERIOR ELEVATION
 A103 1/4" = 1'-0"



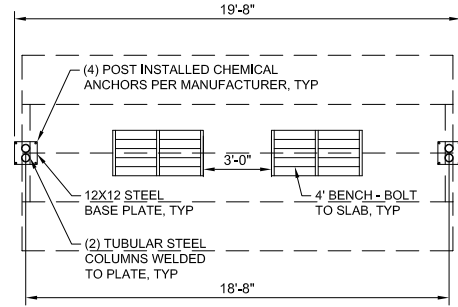
6 ELECT EQUIP BACKER - BOTTOM
 A103 3" = 1'-0"



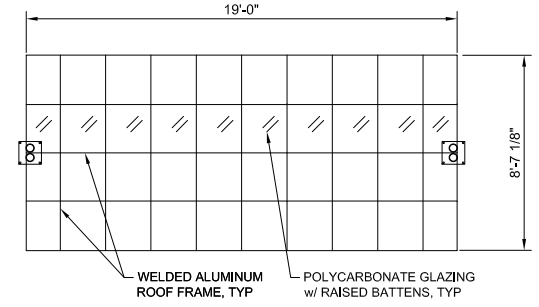
6.5 ELECT EQUIP BACKER - VERT EDGE
 A103 3" = 1'-0"



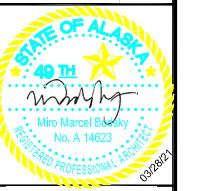
7 BUS SHELTER FOUNDATION PLAN
 A103 1/4" = 1'-0"



8 BUS SHELTER PLAN
 A103 1/4" = 1'-0"



9 BUS SHELTER ROOF PLAN
 A103 1/4" = 1'-0"
 SCALE: 1/4" = 1'-0"



MARK	DATE	DESCRIPTION
	03/28/21	

CITY AND BOROUGH OF JUNEAU
 JUNEAU, AK
 CAPITAL TRANSIT VALLEY TRANSFER STATION
 CONTRACT NO. BE20-268
BREAK ROOM DETAILS & BUS SHELTER PLANS & ELEVATIONS

Project No.: 200-67908-20001
 Designed By: MMB
 Drawn By: TR
 Checked By: MMB

A-103
 Copyright: Tetra Tech
 Bar Measures 1 inch

3/28/2021 5:38:33 PM - \\IT\LOCAL\PROJECTS\SEATTLE\67908-20001\CAD\SHEDFILES\A-103 - DETAIL.SDWG - ROTH, THOMAS

I. STRUCTURAL TESTS AND SPECIAL INSPECTIONS

I1 STRUCTURAL TESTS AND SPECIAL INSPECTIONS

SPECIAL INSPECTION SHALL CONFORM TO SECTION 1705 OF THE 2012 INTERNATIONAL BUILDING CODE. LABORATORIES FOR MATERIAL TESTING AND/OR AGENCIES FOR TESTING SERVICES SHALL BE SELECTED BY, ENGAGED BY, AND RESPONSIBLE TO THE OWNER / OWNERS REPRESENTATIVE.

THE FOLLOWING ITEMS REQUIRE SPECIAL INSPECTION PER IBC CHAPTER 17. THESE INSPECTIONS SHALL BE PERFORMED BY A QUALIFIED SPECIAL INSPECTOR.

ITEM	DESCRIPTION
INSPECTION OF REINFORCING STEEL, INCLUDING PLACEMENT	FREQUENCY: PERIODIC REFERENCE: IBC 2012 TABLE 1705.3
INSPECTION OF ANCHORS CAST IN CONCRETE	FREQUENCY: PERIODIC REFERENCE: IBC 2012 TABLE 1705.3
INSPECTION OF ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS	FREQUENCY: PERIODIC REFERENCE: IBC 2012 TABLE 1705.3
VERIFYING USE OF REQUIRED DESIGN MIX	FREQUENCY: PERIODIC REFERENCE: IBC 2012 TABLE 1705.3
PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE	FREQUENCY: PERIODIC REFERENCE: IBC 2012 TABLE 1705.3
CONCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES	FREQUENCY: PERIODIC REFERENCE: IBC 2012 TABLE 1705.3
VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUE	FREQUENCY: PERIODIC REFERENCE: IBC 2012 TABLE 1705.3
INSPECTION OF FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS	FREQUENCY: PERIODIC REFERENCE: IBC 2012 TABLE 1705.3
VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY	FREQUENCY: PERIODIC REFERENCE: IBC 2012 TABLE 1705.6
VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL	FREQUENCY: PERIODIC REFERENCE: IBC 2012 TABLE 1705.6
PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS	FREQUENCY: PERIODIC REFERENCE: IBC 2012 TABLE 1705.6
VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF COMPACTED FILL	FREQUENCY: CONTINUOUS REFERENCE: IBC 2012 TABLE 1705.6
PRIOR TO PLACEMENT OF COMPACTED FILL, INSPECT SUBGRADE AND VERIFY THAT SITE HAS BEEN PROPERLY PREPARED	FREQUENCY: PERIODIC REFERENCE: IBC 2012 TABLE 1705.6
NAILING, BOLTING, ANCHORING AND OTHER FASTENING COMPONENTS WITHIN THE MAIN WIND FORCE RESISTING SYSTEM OR THE SEISMIC FORCE RESISTING SYSTEM, INCLUDING WOOD SHEAR WALLS, WOOD DIAPHRAGMS, DRAG STRUTS, BRACES, SHEAR PANELS AND HOLDDOWNS.	FREQUENCY: PERIODIC REFERENCE: IBC 2012 SECTION 1705.10.1 AND 1705.11.2

3/31/2021 10:08:12 AM - O:\PROJECTS\SEATTLE\07908\200-67908-2\0001\CAD\SHEETFILES\02 - STRUCTURAL_GENERAL NOTES.DWG - SCHWARTZ, ALEX



TETRA TECH
www.tetrattech.com
217 SECOND STREET, SUITE 207
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BY	DESCRIPTION	DATE	MARK

CITY AND BOROUGH OF JUNEAU
JUNEAU, AK
CAPITAL TRANSIT VALLEY TRANSFER STATION
CONTRACT NO. BE20-266
**BREAKROOM AND
BUS SHELTER
GENERAL NOTES**

Project No.: 200-67908-20001
Designed By: RWM
Drawn By: RWM
Checked By: HRN

S-002

Copyright: Tetra Tech

Bar Measures 1 inch

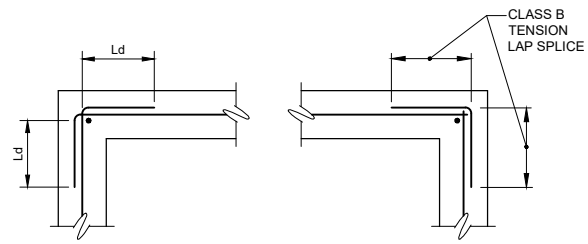
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TENSION DEVELOPMENT AND SPLICE LENGTHS							
BAR SIZE	Ld		CLASS B TENSION LAP		STD 90° HOOK		
	TOP BARS (NOTE 2)	OTHER BARS	TOP BARS (NOTE 2)	OTHER BARS	Ldh	HOOK LENGTH	BEND DIA
#3	18	14	23	19	7	5	3
#4	24	18	31	25	9	6	3
#5	30	23	38	31	12	8	4
#6	35	27	46	37	14	9	5
#7	51	40	67	54	16	11	6
#8	59	45	76	62	18	12	6
#9	66	51	86	70	21	14	10
#10	74	57	96	79	23	16	11
#11	82	64	107	87	26	17	12

- NOTES**
- FOR GRADE 60 UNCOATED BARS AND NORMAL WEIGHT CONCRETE, $f'c = 4500$ PSI.
 - "TOP BARS" ARE HORIZONTAL REINFORCING BARS WHERE 12" OF FRESH CONCRETE IS CAST BELOW THE DEVELOPMENT LENGTH OR SPLICE.

REINFORCING DEVELOPMENT AND LAP SPLICE LENGTHS

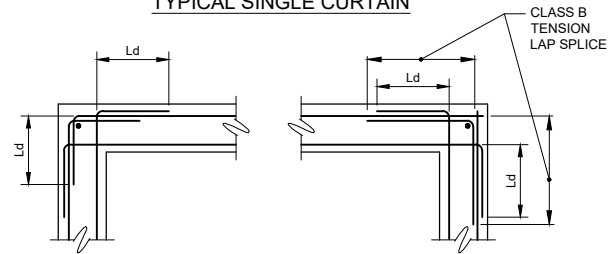
1 DETAIL



CORNER

CORNER (OPTIONAL)

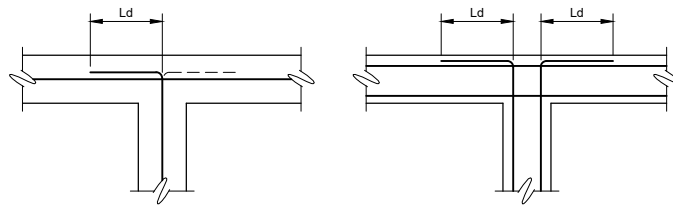
TYPICAL SINGLE CURTAIN



CORNER

CORNER (OPTIONAL)

TYPICAL DOUBLE CURTAIN



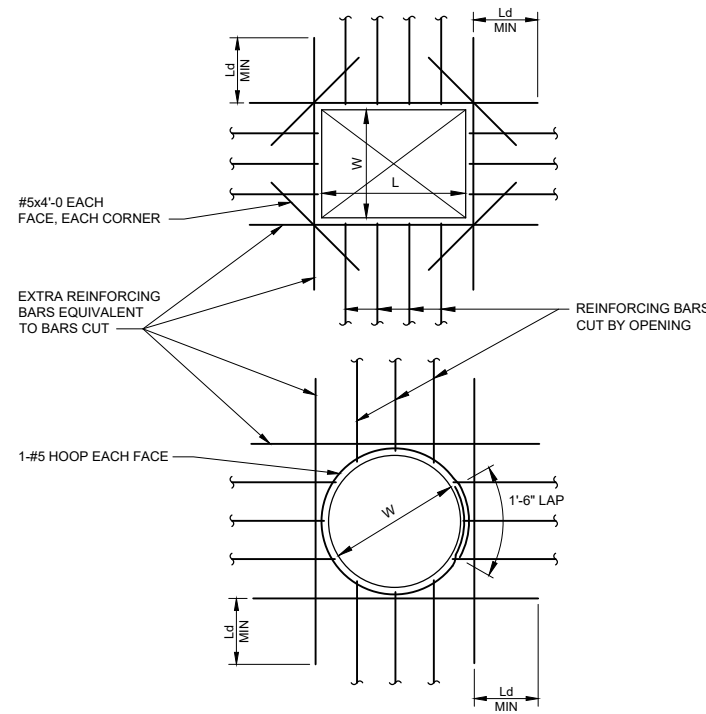
SINGLE CURTAIN

DOUBLE CURTAIN

TYPICAL INTERSECTION

REINFORCING AT WALL INTERSECTIONS

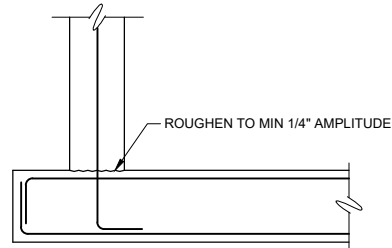
2 DETAIL



- NOTES:**
- REINFORCEMENT IN OTHER DIRECTION SHALL BE TREATED IN A SIMILAR MANNER.
 - "W" AND "L" = DIMENSION OF OPENING. FOR CIRCULAR OPENINGS, "W" = DIAMETER.
 - ALL OPENINGS IN WALLS AND SLABS LARGER THAN OR EQUAL TO 10" IN ANY ONE DIRECTION SHALL CONFORM TO DETAILS.
 - OPENING DETAILS SHOWN ARE TYPICAL UNLESS NOTED OTHERWISE.
 - THE NUMBER OF ADDITIONAL BARS AT EACH SIDE OF THE OPENING EQUALS HALF THE NUMBER OF TYPICAL REINFORCING BARS THAT ARE INTERRUPTED BY THE OPENING.

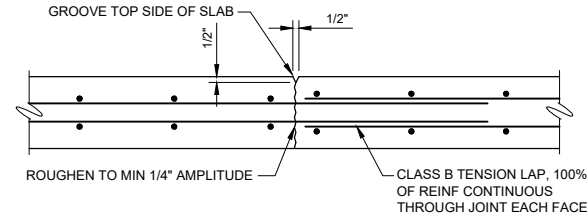
REINFORCING AT WALL AND SLAB OPENINGS

3 DETAIL



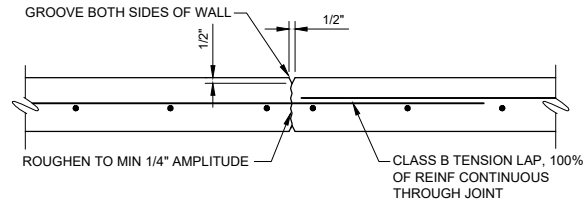
WALL BASE CONSTRUCTION JOINT WITH SINGLE CURTAIN REINFORCING

4 DETAIL



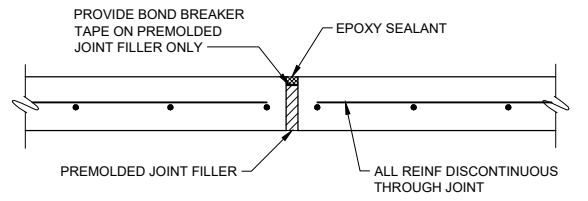
SLAB CONSTRUCTION JOINT

5 DETAIL



WALL CONSTRUCTION JOINT

6 DETAIL



SLAB ISOLATION JOINT

7 DETAIL

MARK	DATE	DESCRIPTION

CITY AND BOROUGH OF JUNEAU
JUNEAU, AK
CAPITAL TRANSIT VALLEY TRANSFER STATION
CONTRACT NO. BE20-268
**BREAKROOM AND
BUS SHELTER
TYPICAL DETAILS**

Project No.: 200-67908-20001
Designed By: RWM
Drawn By: RWM
Checked By: HRN

S-003

FASTENING SCHEDULE

Table with 3 columns: DESCRIPTION OF BUILDING ELEMENTS, NUMBER AND TYPE OF FASTENER, SPACING AND LOCATION. Includes sections for ROOF, WALL, and various fastening details like blocking, joists, and studs.

FASTENING SCHEDULE (CONTINUED)

Table with 3 columns: DESCRIPTION OF BUILDING ELEMENTS, NUMBER AND TYPE OF FASTENER, SPACING AND LOCATION. Includes sections for WALL (CONTINUED) and FLOOR, detailing fasteners for joists, girders, and blocking.

FASTENING SCHEDULE (CONTINUED)

Table with 3 columns: DESCRIPTION OF BUILDING ELEMENTS, NUMBER AND TYPE OF FASTENER, SPACING AND LOCATION. Includes sections for FRAMING, OTHER EXTERIOR WALL SHEATHING, WOOD STRUCTURAL PANELS, and INTERIOR PANELING.

- A. NAILS SPACED AT 6 INCHES AT INTERMEDIATE SUPPORTS WHERE SPANS ARE 48 INCHES OR MORE. FOR NAILING OF WOOD STRUCTURAL PANEL AND PARTICLEBOARD DIAPHRAGMS AND SHEAR WALLS, REFER TO SECTION 2305. NAILS FOR WALL SHEATHING ARE PERMITTED TO BE COMMON, BOX OR CASING.
B. SPACING SHALL BE 6 INCHES ON CENTER ON THE EDGES AND 12 INCHES ON CENTER AT INTERMEDIATE SUPPORTS FOR NONSTRUCTURAL APPLICATIONS. PANEL SUPPORTS AT 16 INCHES (20 INCHES IF STRENGTH AXIS IN THE LONG DIRECTION OF THE PANEL, UNLESS OTHERWISE MARKED).
C. WHERE A RAFTER IS FASTENED TO AN ADJACENT PARALLEL CEILING JOIST IN ACCORDANCE WITH THIS SCHEDULE AND THE CEILING JOIST IS FASTENED TO THE TOP PLATE IN ACCORDANCE WITH THIS SCHEDULE, THE NUMBER OF TOENAILS IN THE RAFTER SHALL BE PERMITTED TO BE REDUCED BY ONE NAIL.
D. RRSR-01 IS A ROOF SHEATHING RINK SHANK NAIL MEETING THE SPECIFICATIONS IN ASTM F1667.

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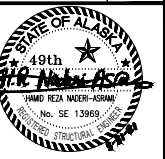


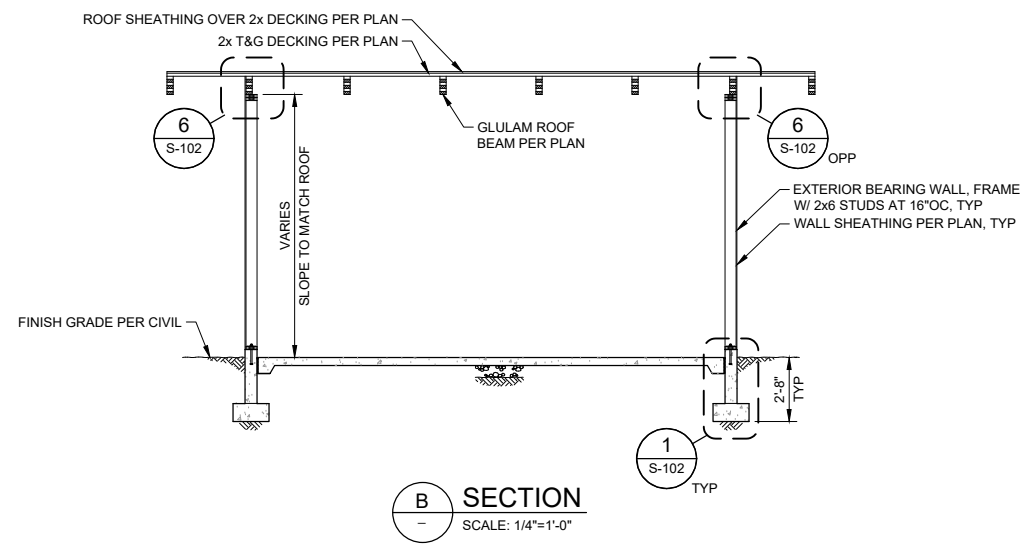
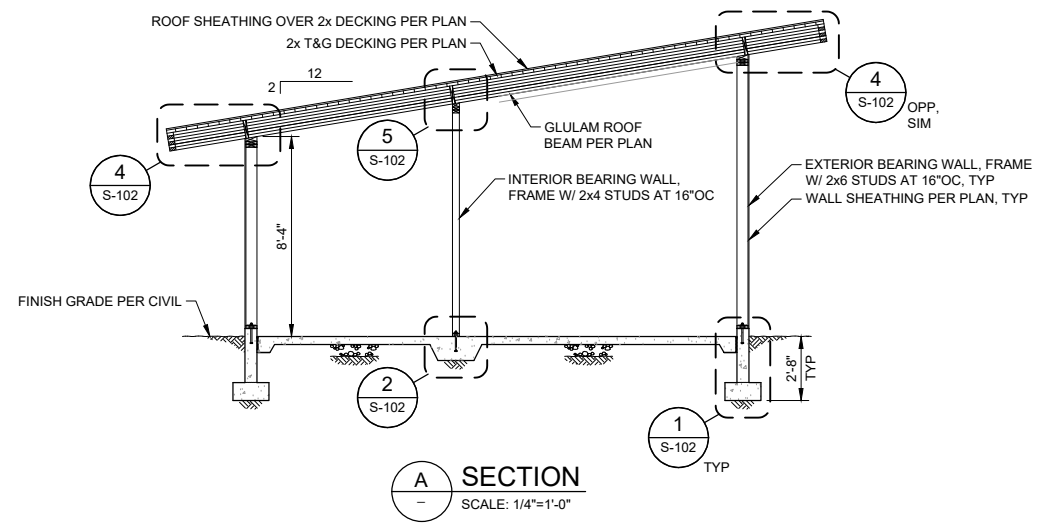
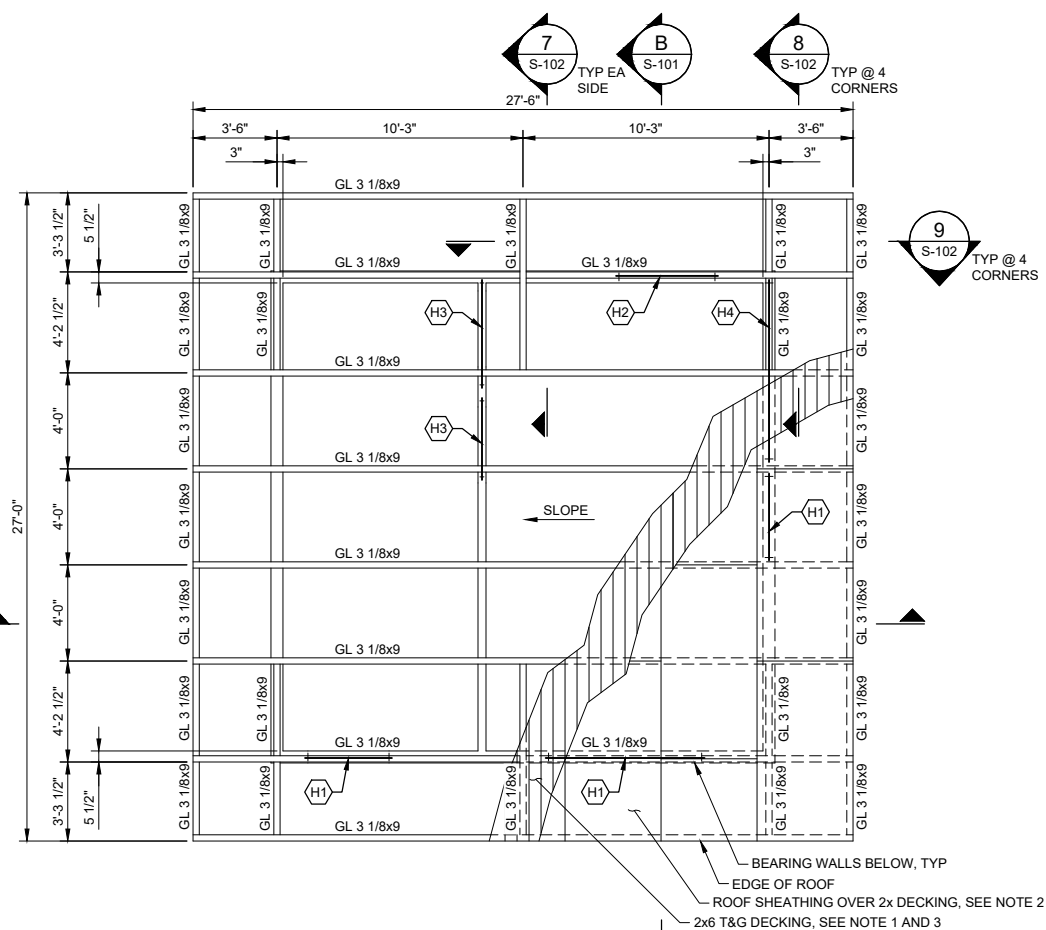
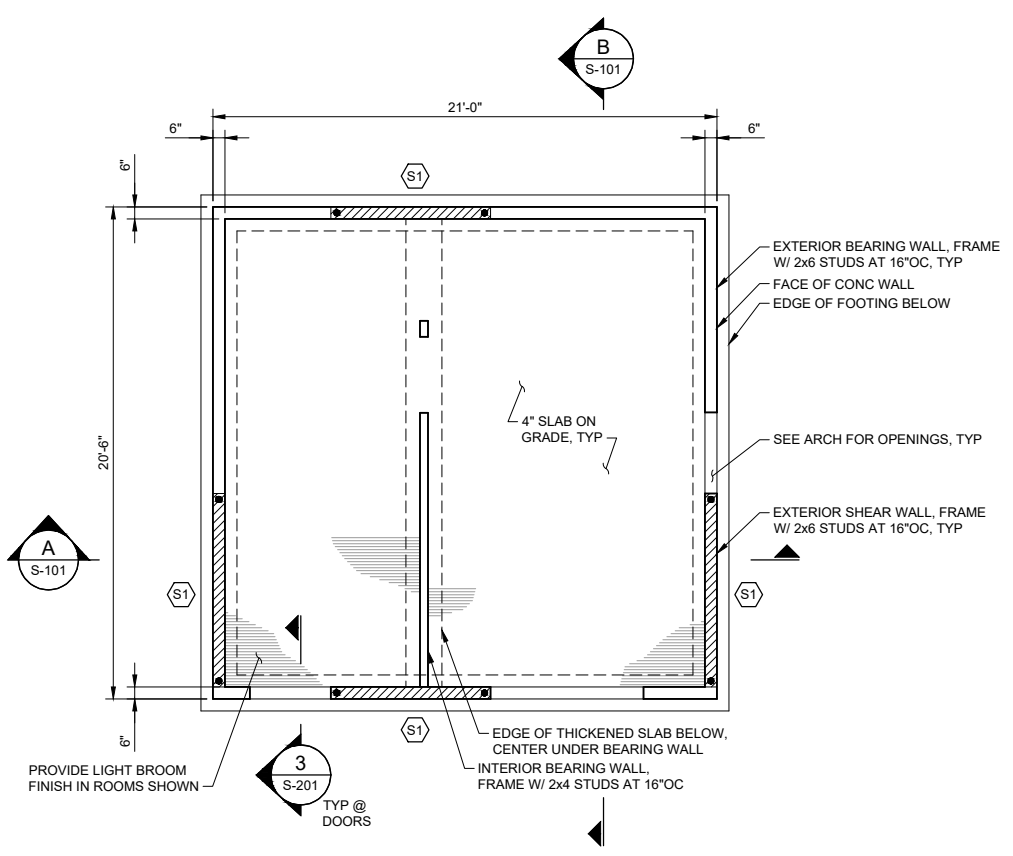
Table with 2 columns: BY, DATE. A grid for recording the author and date of each sheet.

CITY AND BOROUGH OF JUNEAU, AK
CAPITAL TRANSIT VALLEY TRANSFER STATION
CONTRACT NO. BE20-268
TYPICAL WOOD FASTENING

Project No.: 200-67908-20001
Designed By: RWM
Drawn By: RWM
Checked By: HRN

S-004

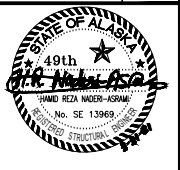
- NOTES**
- INSTALL TONGUE AND GROOVE DECKING WITH TONGUE UP ON SLOPE OF ROOF. EACH PIECE OF DECKING SHALL BE TOENAILED AT EACH SUPPORT WITH ONE 16d (.162" DIAx3 1/2") NAIL THROUGH THE TONGUE AND FACE-NAILED WITH ONE 16d (.162" DIAx3 1/2") NAIL. EACH PIECE SHALL HAVE A MINIMUM OF TWO SPANS AND BE SUPPORTED BY THREE SUPPORTS. ALL END JOINTS SHALL OCCUR IN LINE ON ALTERNATING SUPPORTS.
 - ROOF SHEATHING SHALL BE 23/32" PLYWOOD SHEATHING WITH 48/24 SPAN RATING. FASTEN TO ALL SUPPORTS WITH 16d (.162" DIAx3 1/2") NAILS. FASTEN AT 6" OC AT DIAPHRAGM BOUNDARY, 6" OC AT PANEL EDGES, AND 6" OC AT PANEL FIELD.
 - AT CONTRACTOR'S OPTION, ALASKAN YELLOW CEDAR TONGUE AND GROOVE DECKING MAY BE USED IN LIEU OF THE DOUGLAS FIR-LARCH COMMERCIAL DECKING SPECIFIED.



- KEY NOTES**
- (S#) INDICATES SHEAR WALL TYPE, SEE SHEAR WALL SCHEDULE ON S-XXX
 - (H#) INDICATES HEADER TYPE, SEE HEADER SCHEDULE ON S-XXX
- LEGEND**
- BEARING WALL
 - SHEAR WALL
 - HOLDOWN

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TETRA TECH
www.tetra-tech.com
217 SECOND STREET, SUITE 207
JUNEAU, AK 99801
MAIN: (907) 586-6400 FAX: (907) 463-3677



CITY AND BOROUGH OF JUNEAU
ALASKA'S CAPITAL CITY

BY	DATE	DESCRIPTION

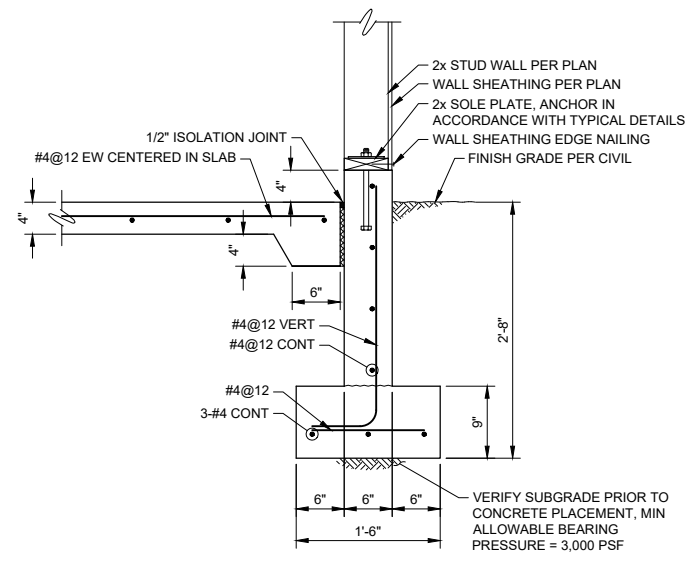
CITY AND BOROUGH OF JUNEAU
JUNEAU, AK
CAPITAL TRANSIT VALLEY TRANSFER STATION
CONTRACT NO. BE20-288
BREAKROOM PLANS AND SECTIONS

Project No.: 200-67908-20001

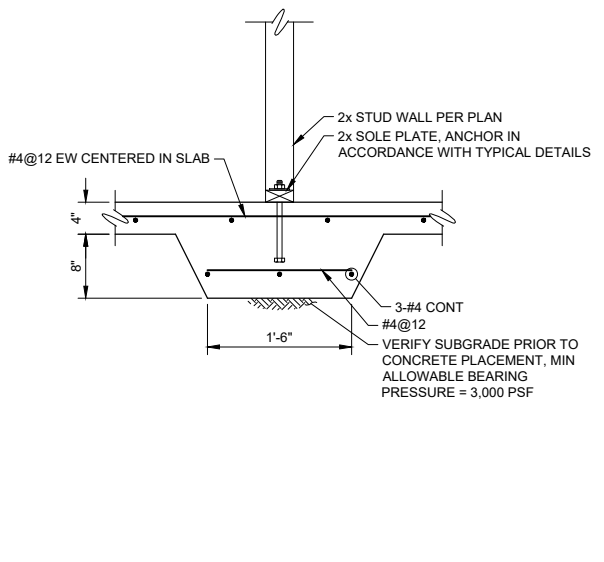
Designed By:	RWM
Drawn By:	RWM
Checked By:	HRN

S-101

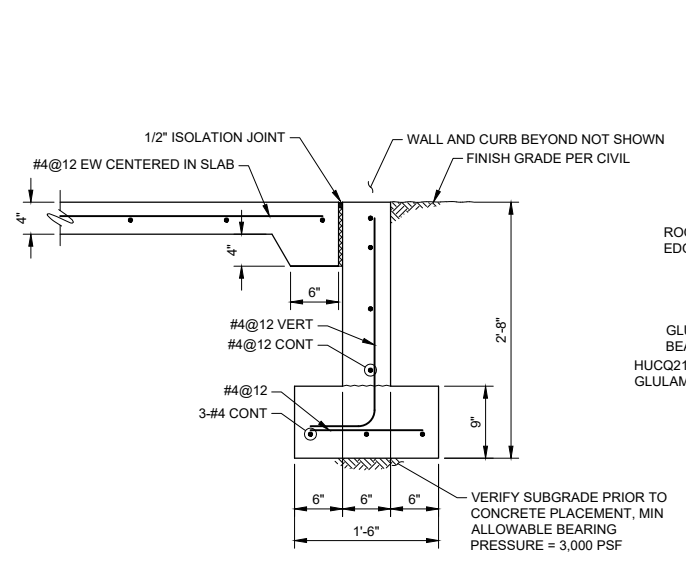
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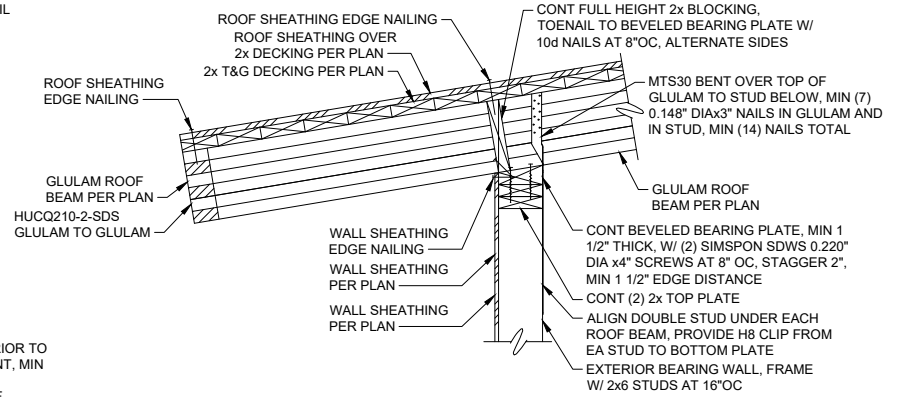
1 DETAIL
S-101 SCALE: 1"=1'-0"



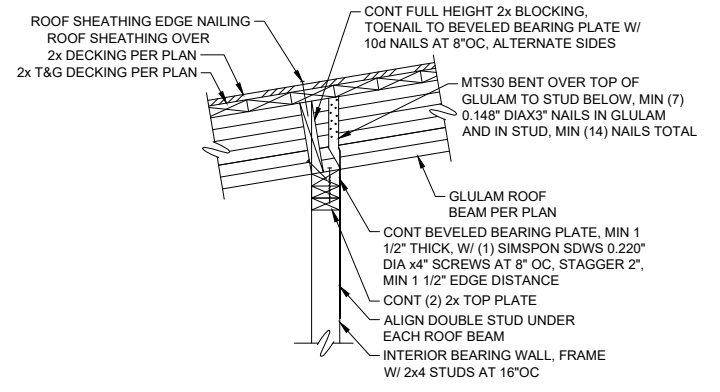
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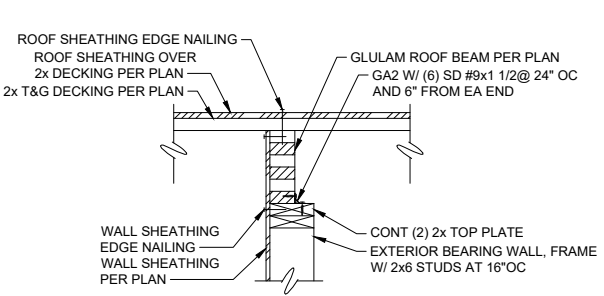
3 DETAIL
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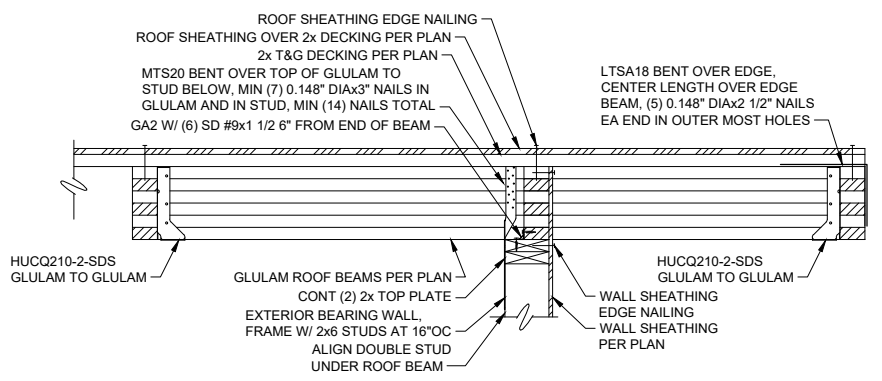
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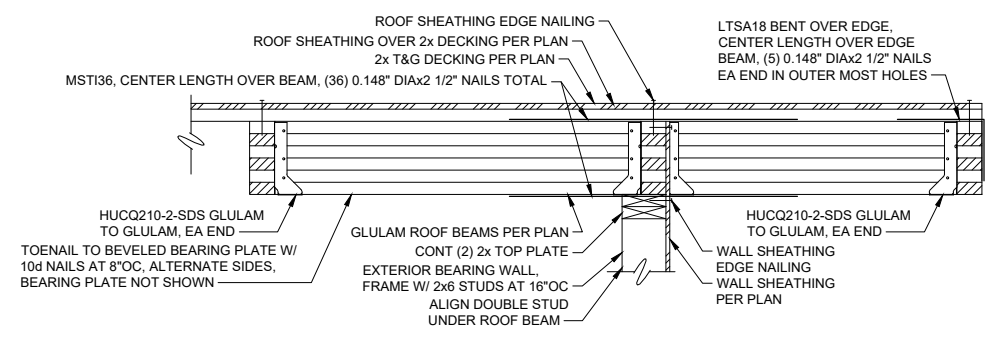
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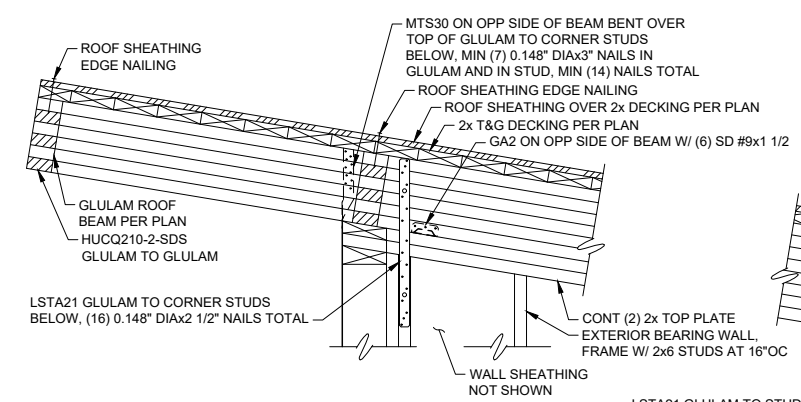
6 DETAIL
S-101 SCALE: 1"=1'-0"



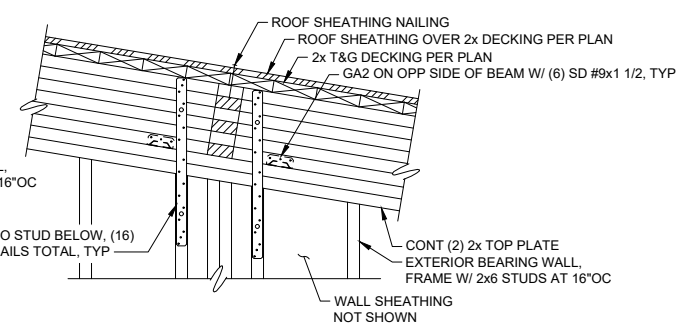
7 DETAIL
S-101 SCALE: 1"=1'-0"



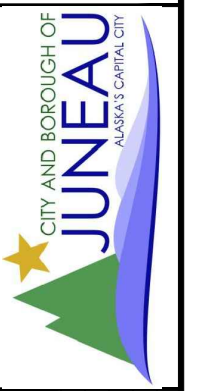
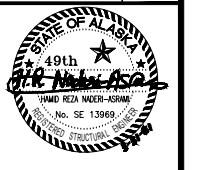
8 DETAIL
S-101 SCALE: 1"=1'-0"



9 DETAIL
S-101 SCALE: 1"=1'-0"



NOTES
1. SEE ARCHITECTURAL DRAWINGS FOR REQUIRED PAINTING OF EXPOSED HARDWARE AND FASTENERS.

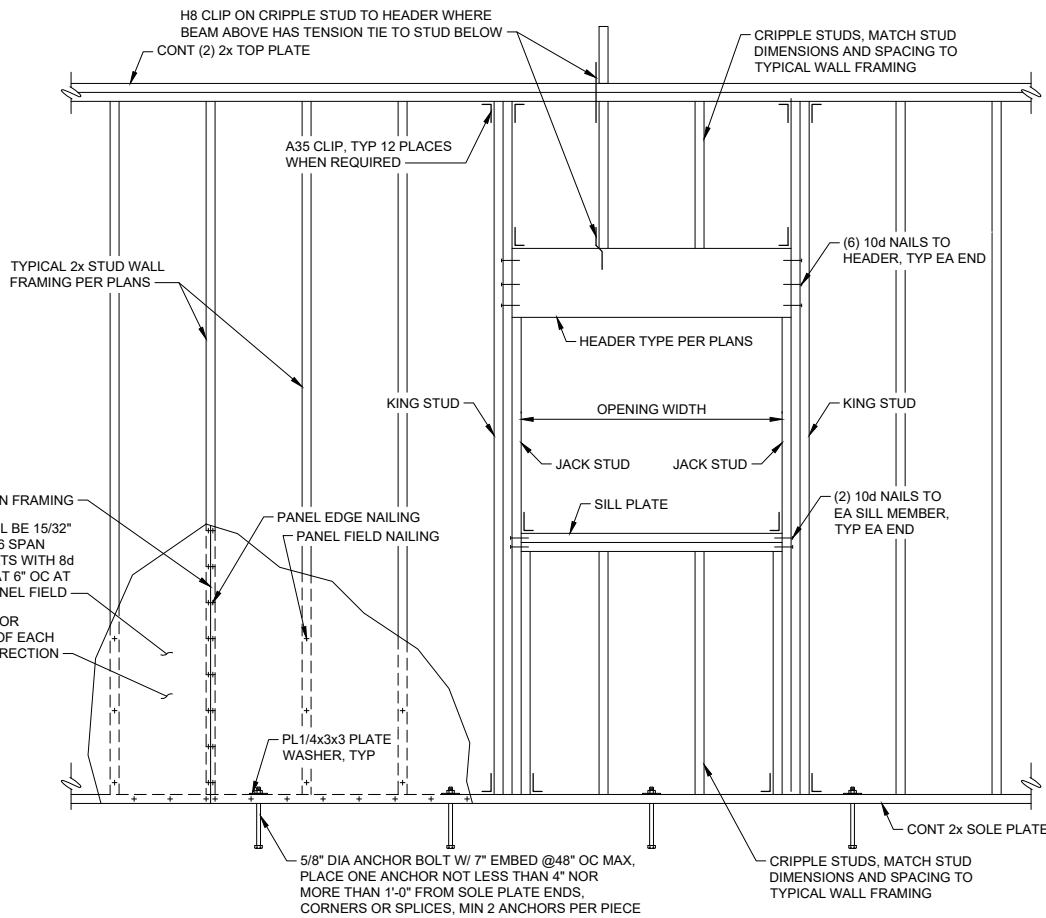


MARK	DATE	DESCRIPTION	BY

CITY AND BOROUGH OF JUNEAU
JUNEAU, AK
CAPITAL TRANSIT VALLEY TRANSFER STATION
CONTRACT NO. BE20-268
BREAKROOM DETAILS

Project No.: 200-67908-20001
Designed By: RWM
Drawn By: RWM
Checked By: HRN

S-102

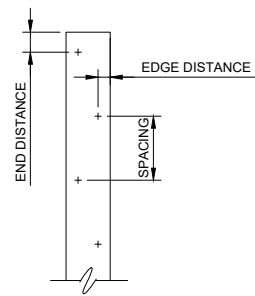


CENTER PANEL JOINTS ON FRAMING
BEARING WALL SHEATHING SHALL BE 15/32\"/>

ORIENT SHEATHING VERTICALLY OR HORIZONTALLY, MIN DIMENSION OF EACH PANEL SHALL BE 24\"/>

HEADER SCHEDULE					
HEADER TYPE	HEADER	SILL	JACK STUD	KING STUD	CLIPS REQUIRED
H1	(1) 6x6	N/A	(1) 2x	(2) 2x	NO
H2	(1) 6x6	(2) 2x	(1) 2x	(2) 2x	NO
H3	(1) 4x8	N/A	(2) 2x	(2) 2x	YES
H4	(1) 6x8	(2) 2x	(1) 2x	(2) 2x	YES

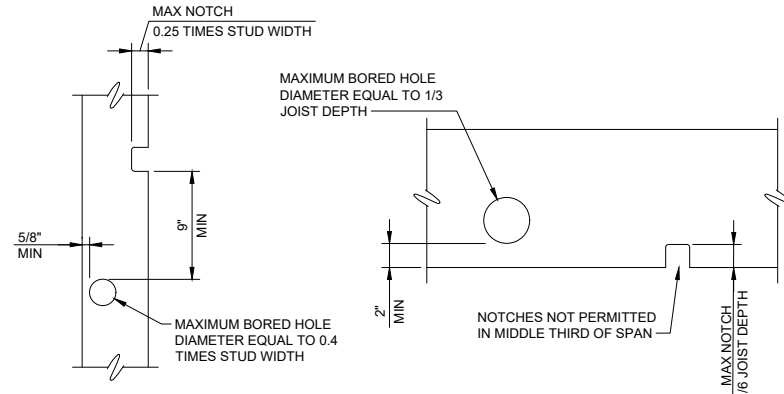
1 TYPICAL BEARING WALL
SCALE: 3/4"=1'-0"



BUILT-UP COLUMNS				
BUILT-UP MEMBERS	FASTENER SIZE	FASTENER SPACING	FASTENER END DISTANCE	FASTENER EDGE DISTANCE
(2) 2x4	10d	6"	2 1/2"	1"
(3) 2x4	30d	8"	3 1/2"	1 1/2"
(2) 2x6	10d	8"	2 1/2"	1 1/2"
(3) 2x6	30d	8"	3 1/2"	1 1/2"

NOTE: ADJACENT NAILS SHALL BE DRIVEN FROM OPPOSITE SIDES OF THE COLUMN.

2 BUILT-UP COLUMNS
SCALE: 1"=1'-0"

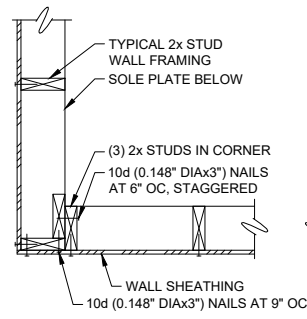


STUD ELEVATION

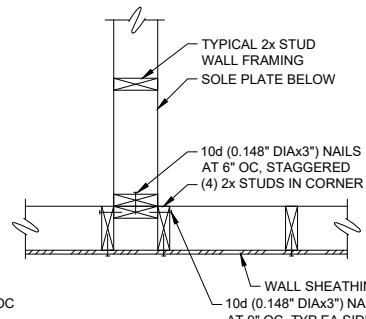
SOLID SAWN JOIST ELEVATION

NOTE: CUTTING AND NOTCHING OF JOISTS AND STUDS SHALL CONFORM TO IBC SECTIONS 2308.8.2, 2308.9.10, 2308.9.11 AND THE LIMITATIONS SHOWN ON THE DRAWINGS. NOTCHING OR CUTTING OF OTHER MEMBERS IS STRICTLY PROHIBITED UNLESS SPECIFICALLY DETAILED OR AS APPROVED BY THE ENGINEER.

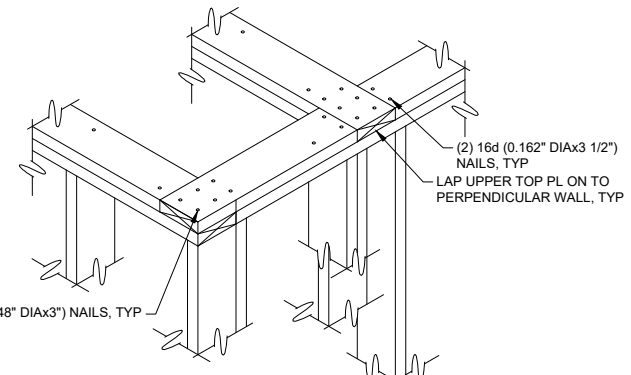
3 ALLOWABLE HOLES AND NOTCHES
SCALE: 1 1/2"=1'-0"



CORNER PLAN VIEW

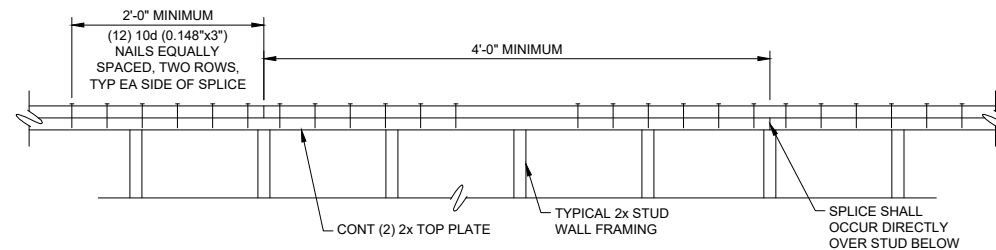


INTERSECTION PLAN VIEW

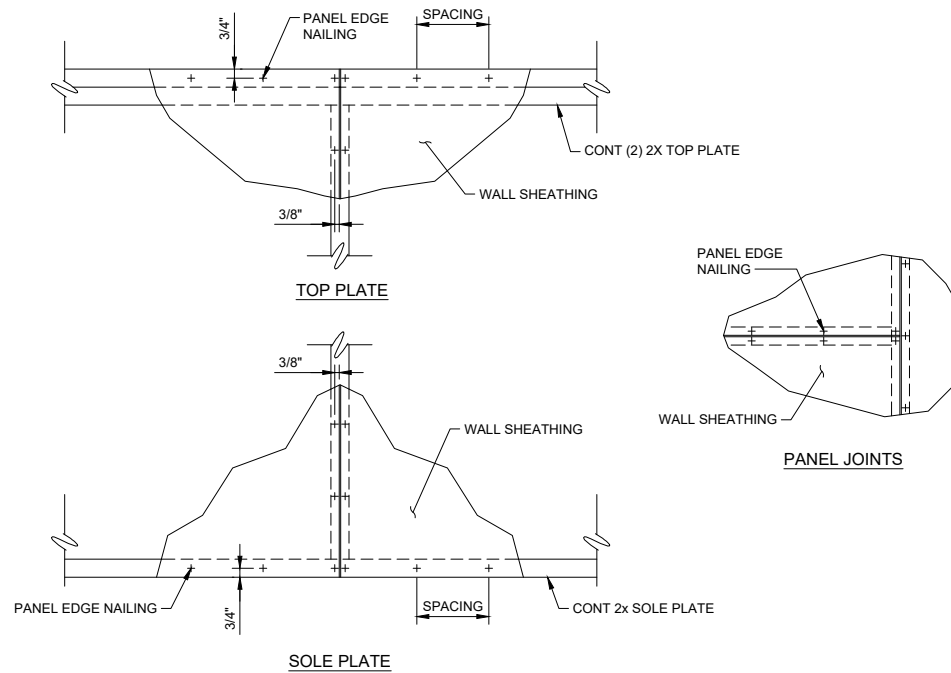


ISOMETRIC VIEW

4 TYPICAL WALL FRAMING AT CORNERS AND INTERSECTIONS
SCALE: 1"=1'-0"



5 TYPICAL TOP PLATE SPLICE
SCALE: 1"=1'-0"

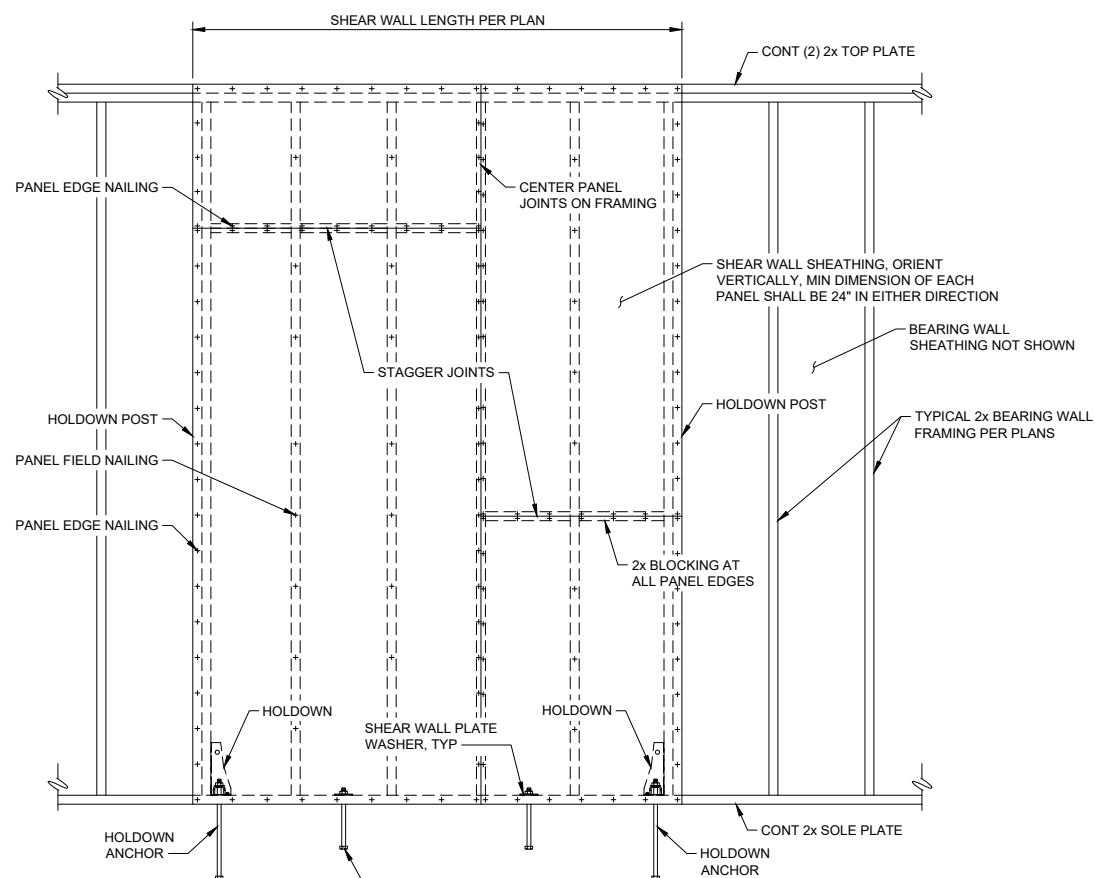


6 TYPICAL WALL SHEATHING EDGE NAILING
SCALE: 1 1/2"=1'-0"

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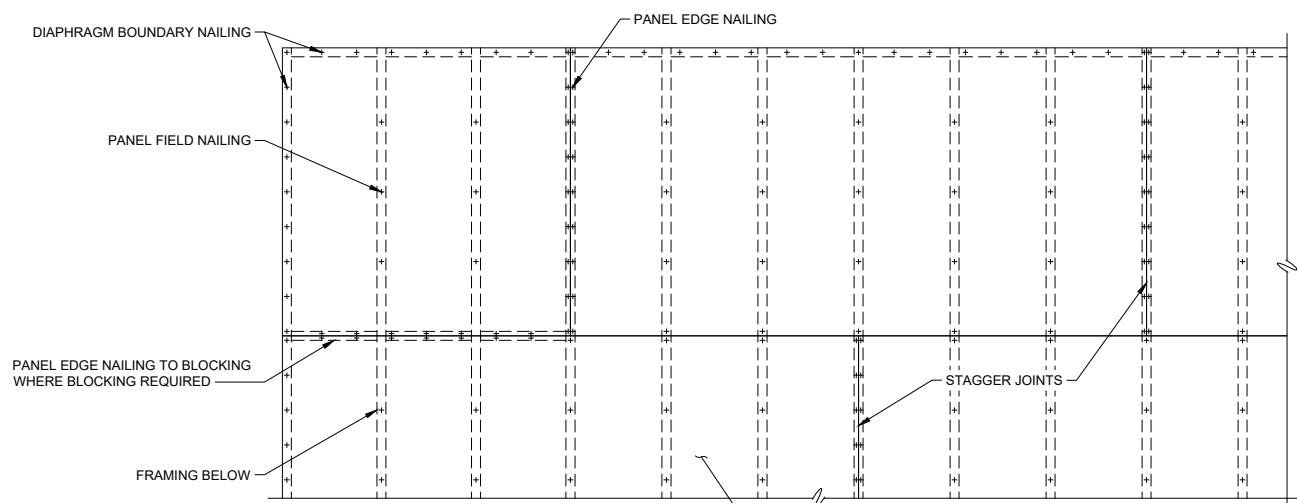
BY	DESCRIPTION	
MARK	DATE	DESCRIPTION

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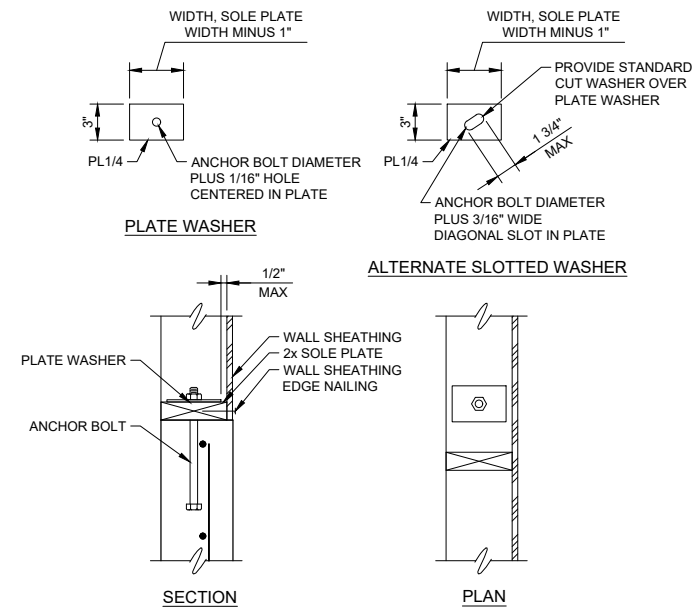
SHEAR WALL TYPE	SHEATHING	SPAN RATING	SHEATHING NAILING	HOLDOWN POST	HOLDOWN TYPE	HOLDOWN ANCHOR	HOLDOWN ATTACHMENT TO POST
S1	15/32\" PLYWOOD SHEATHING	32/16	10d@6\" OC EDGES, 12\" OC FIELD	(2) 2x STUDS	HDU4-SDS2.5	5/8\" DIA ANCHOR BOLT W/ 14\" EMBED	(10) 1/4\" x 2-1/2\" SDS

1 TYPICAL SHEAR WALL
SCALE: 3/4\"=1'-0\"

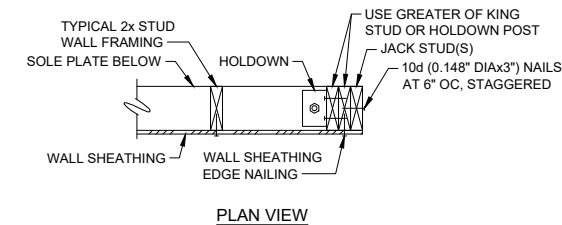


NOTE: USE EDGE NAILING AT ALL INTERIOR SHEAR WALLS AND DRAG STRUTS.

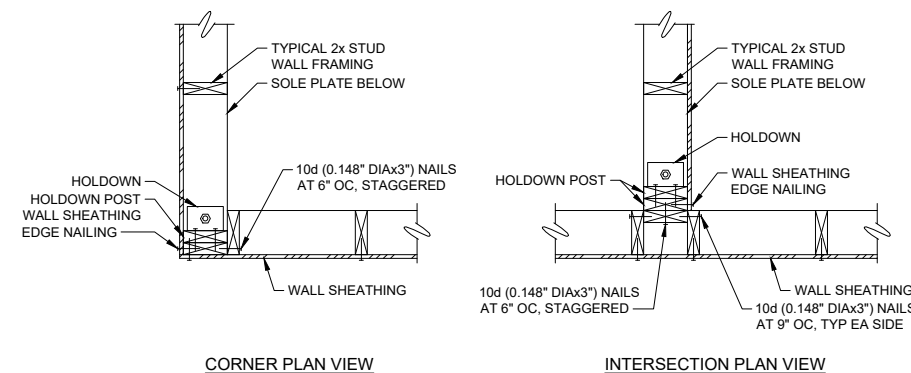
5 TYPICAL DIAPHRAGM
SCALE: 3/4\"=1'-0\"



3 TYPICAL SHEAR WALL PLATE WASHER
SCALE: 1 1/2\"=1'-0\"



4 TYPICAL HOLDOWN AT OPENINGS
SCALE: 1\"=1'-0\"

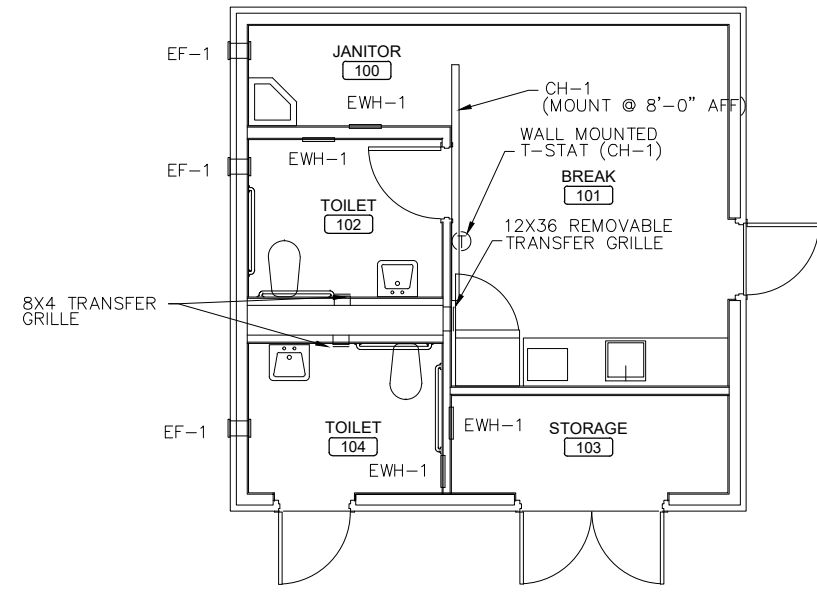


5 TYPICAL HOLDDOWN AT CORNERS AND INTERSECTIONS
SCALE: 1\"=1'-0\"

MARK	DATE	DESCRIPTION

1 2 3 4 5 6 7

F
E
D
C
B
A



**BREAKROOM FLOOR
PLAN-HVAC**
SCALE: 1/4"=1'-0"

ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR	FLA	FULL LOAD AMPERES	NTS	NOT TO SCALE
BTUH	BRITISH THERMAL UNITS/HOUR	FLR	FLOOR	N/A	NOT APPLICABLE
CFM	CUBIC FEET PER MINUTE	FT	FEET	OSA	OUTSIDE AIR
CONT	CONTINUATION	HP	HORSE POWER	PH	PHASE
DET	DETAIL	IN	INCH	RPM	REVOLUTIONS PER MINUTE
DN	DOWN	MBH	THOUSAND BTU PER HOUR	SF	SQUARE FEET
EA	EXHAUST AIR	MCA	MINIMUM CURRENT AMPERES	TEMP	TEMPERATURE
ea	EACH	MECH	MECHANICAL	T STAT	THERMOSTAT
ELEC	ELECTRICAL	MIN	MINIMUM	TYP	TYPICAL
		MOCP	MAX OVERCURRENT PROTECTION	W	WATT
				WT	WEIGHT

EQUIPMENT DESIGNATION

EF	EXHAUST FAN
EWH	ELECTRIC WALL HEATER
CH	COVE HEATER

TETRA TECH
www.tetra.tech.com
217 SECOND STREET, SUITE 207
JUNEAU, AK 99801
MAIN: (907) 586-6400 FAX: (907) 463-3677

CITY AND BOROUGH OF
JUNEAU
ALASKA'S CAPITAL CITY

ELECTRIC HEATER SCHEDULE									
SYM.	MFR MODEL	TYPE	LOCATION FLOOR AREA	SERVICE	CFM	CAPACITY	ELECTRICAL		REMARKS
							WATTS	V-PH AMPS	
EWH-1	QMARK CWH3404	ELECTRIC WALL HEATER	RESTROOM JANITOR STORAGE	GENERAL HEAT	100	2000	208-1	14.5	
CH-1	KING KCV2018-W	ELECTRIC COVE HEATER	BREAK ROOM	GENERAL HEAT	-	1800	208-1	8.7	LENGTH= 118". PROVIDE KING MODEL K101 LINE VOLTAGE T-STAT (208 V)

EXHAUST FAN SCHEDULE											
SYM.	MFR MODEL	TYPE	LOCATION FLOOR AREA	SERVICE	FLOW (CFM)	ESP ("wc)	FRPM	VOLT-PH	AMPS	OPER. WT. (LBS)	REMARKS
EF-1	BROAN 512M	SEWALL	RESTROOM/JANITOR	GENERAL VENT	70	0.2	-	115-1	0.7	-	PROVIDE DAMPER WEATHERHOOD AND MOTOR GUARD

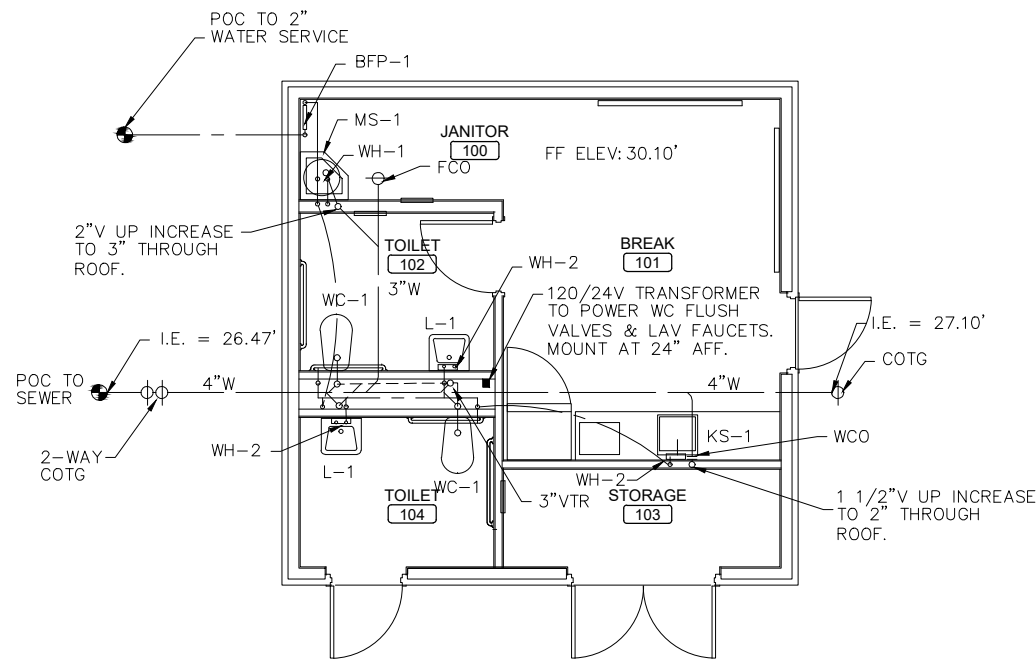
BY	DESCRIPTION	DATE
KPK	STAMPED AND SIGNED DRAWINGS	03-31-21

CITY AND BOROUGH OF JUNEAU
JUNEAU, AK
CAPITAL TRANSIT VALLEY TRANSFER STATION
CONTRACT NO. BE20-288
BREAKROOM PLANS-HVAC

Project No.:	200-67908-20001
Designed By:	KPK
Drawn By:	KPK
Checked By:	TMB

M-101

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BREAKROOM FLOOR PLAN-PLUMBING

SCALE: 1/4"=1'-0"

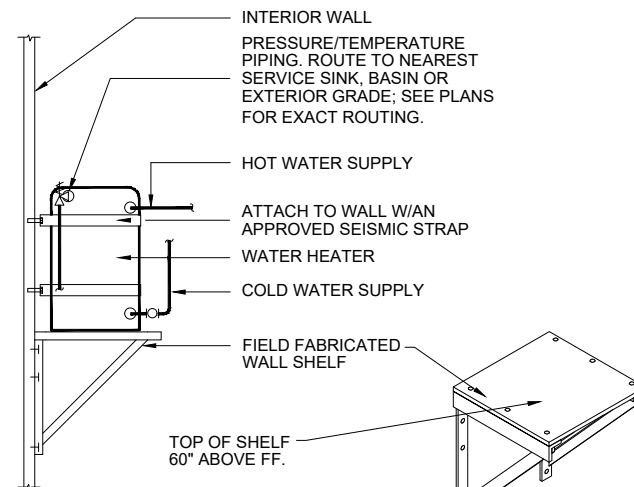
EQUIPMENT SCHEDULE

WH-1	WATER HEATER	A.D. SMITH DSE-10A, 6KW INPUT, 10 GAL STORAGE, 27 GPH RECOVERY @ 90° RISE. 208 V.-1Ø ELECTRICAL CIRCUIT
WH-2	WATER HEATER	CHRONOMITE MODEL CM-12L/208, 2500 WATTS@ 208 V.-1Ø
BFP-1	BACKFLOW PREVENTER	WATTS MODEL 009 REDUCED PRESSURE BACKFLOW PREVENTER. UNIT SHALL BE FULL LINE SIZE. PROVIDE INDIRECT DRAIN TO CLOSEST APPROVED RECEPTACLE.

PIPE SCHEDULE

SERVICES	AG: ABOVE GRADE BG: BELOW GRADE	PIPE MATERIALS							REMARKS			
		SCH 40 PVC	C.I. HUB & SPIGOT	ABS SCH 40	COPPER DWV	SCH 40 BLACK STEEL	SCH 40 GALV. STEEL	COPPER TYPE "K"		COPPER TYPE "L"	COPPER TYPE "M"	
WASTE	AG	●										
	BG	●										
VENT	AG	●										
	BG	●										
COLD & HOT WATER	AG									●		
	BG									●		

① SOFT DRAWN W / POLYETHYLENE SLEEVE



WH-1 SUPPORT DETAIL

NOT TO SCALE

FIXTURE SCHEDULE

ITEM	FIXTURE*	ROUGH-IN CONNECTIONS					REMARKS
		WASTE	TRAP	VENT	COLD WATER	HOT WATER	
WC-1	WATER CLOSET ADA	4"	INT	2"	1"	-	AMER. STD. MODEL 3351.660 AFWALL WALL MOUNTED 1.6 GALLON PER FLUSH, WITH ZURN MODEL 111-1.6-ES-S TMO FLUSH VAL. W/EL-154 XFRM, ZURN MODEL Z-1204-N CARRIER, AND OPEN END SEAT.
L-1	LAVATORY ADA	1 1/2"	1 1/2"	1 1/2"	1/2"	1/2"	AMER. STD. MODEL 0355.012, W/ SLOAN MODEL ETF-600 24 VAC POWERED FAUCET GRID DRAIN, TRANSFORMER & SOLENOID VALVE. PROVIDE SLOAN MIX-135-A THERMOSTATIC MIXING VALVE WHICH MEETS ASSE 1070 PERFORMANCE STANDARDS.
MS-1	MOP SINK	3"	3"	2"	3/4"	3/4"	FLOOR MOUNTED, TERRAZZO, 24 x 24 x 12 DEEP. PROVIDE CHICAGO MODEL 897 FAUCET WITH VACUUM BREAKER
KS-1	KITCHEN SINK	1 1/2"	1 1/2"	1 1/2"	1/2"	1/2"	JUST MODEL SLF-1921-A-GR 18 GA. TYPE 304 SS SELF RIMMING 21X19 SINGLE COMPARTMENT SINK WITH JUST MODEL JRL FAUCET, AND CUP STRAINER.

ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR	GA	GAGE or GAUGE	PH	PHASE
CLG	CEILING	GAL	GALLON	POC	POINT OF CONNECTION
CO	CLEANOUT	HOA	HAND-OFF-AUTO SWITCH	PSIG	POUNDS PER SQUARE INCH (GAUGE)
CONC	CONCRETE	HP	HORSE POWER	PTRV	PRESSURE/TEMPERATURE RELIEF VALVE
CONT	CONTINUATION	HR	HOUR	RHW	RECIRCULATED HOT WATER
CW	COLD WATER	HW	HOT WATER	RM	ROOM
CD	CONDENSATE DRAIN	I.E.	INVERT ELEVATION	RPM	REVOLUTIONS PER MINUTE
DEG	DEGREE	MAX	MAXIMUM	SS	STAINLESS STEEL
DET	DETAIL	MIN	MINIMUM	TEMP	TEMPERATURE
DIA	DIAMETER	NC	NORMALLY CLOSED	T STAT	THERMOSTAT
DN	DOWN	NTS	NOT TO SCALE	TYP	TYPICAL
EFF	EFFICIENCY	OD	OUTSIDE DIAMETER	UTR	UP THRU ROOF
EL	ELEVATION	OPNG	OPENING	V	VOLT, VENT
EWT	ENTERING WATER TEMPERATURE			VTR	VENT THROUGH ROOF
FC	FLEXIBLE CONNECTION			W	WATT, WASTE
FFE	FINISHED FLOOR ELEVATION			W/	WITH
FLEX	FLEXIBLE			WG	WATER GAUGE
FLR	FLOOR			WT	WEIGHT
FS	FLOOR SINK				

FLOW STREAM IDENTIFICATION

LEGEND	SERVICE
V	VENT (SANITARY)
W	WASTE
CW	COLD WATER
HW	HOT WATER

PLUMBING FIXTURE IDENTIFICATION

IDENTIFICATION TAG	FIXTURE
CO	CLEANOUT
COTG	CLEANOUT TO GRADE
KS	KITCHEN SINK
L	LAVATORY
MS	MOP SINK
WC	WATER CLOSET
WCO	WALL CLEANOUT

EXAMPLE CALLOUT: WC - 1
FIXTURE LEGEND
NO. ON FIXTURE SCHEDULE



03-31-2021



BY	DESCRIPTION	DATE
KPK	STAMPED AND SIGNED DRAWINGS	03-31-21

CITY AND BOROUGH OF JUNEAU
JUNEAU, AK
CAPITAL TRANSIT VALLEY TRANSFER STATION
CONTRACT NO. BE20-268
BREAKROOM PLANS

Project No.: 200-67908-20001
Designed By: KPK
Drawn By: KPK
Checked By: TMB

P-101

Bar Measures 1 inch

Copyright: Tetra Tech

Y:\129 dowl engineering\30 valley transit center\working drawings\TITLE, INDEX, LEGEND, & GENERAL NOTES.dwg PLOT DATE 2021-03-25 20:54 USER: jodi

SHEET LIST TABLE	
Sheet Number	Sheet Title
E-100	TITLE, INDEX, LEGEND, AND GENERAL NOTES
E-101	OVERALL SITE PLAN AND KEY MAP
E-102	ENLARGED SITE PLAN (1 OF 4)
E-103	ENLARGED SITE PLAN (2 OF 4)
E-104	ENLARGED SITE PLAN (3 OF 4)
E-105	ENLARGED SITE PLAN (4 OF 4)
E-201	BREAKROOM FLOOR PLANS
E-202	BREAKROOM ELEVATION AND ACCESS CONTROL SCHEMATIC
E-203	SINGLE LINE DIAGRAM AND ELECTRICAL SCHEDULES
E-204	LUMINIARE SCHEDULE AND LIGHTING CONTROL SCHEMATIC
E-205	TELECOMM AND CAMERA DETAILS
E-301	LIGHT POLE AND HANDHOLE SUMMARIES
E-302	POLE AND HANDHOLE DETAILS
E-401	AEL&P SINGLE LINE DIAGRAM (NIC)
E-402	ACS TELEPHONE RISER DIAGRAM (NIC)
E-403	GCI TV RISER DIAGRAM (NIC)
E-404	TRENCH DETAIL AND CHARGING STATION POST MOUNTING DETAILS
E-405	UTILITY EQUIPMENT LOCATIONS TABLE AND PANEL C ELEVATION
E-406	LIFT STATION ELECTRICAL DETAILS

GENERAL NOTES:

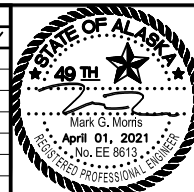
- PERFORM ALL WORK PER NATIONAL ELECTRICAL CODE (NEC), 2020 EDITION.
- PERFORM ALL WORK AS SHOWN ON DRAWINGS AND AS REQUIRED TO PROVIDE OPERATIONAL SYSTEMS.
- COORDINATE WITH POWER, TELEPHONE, AND TELEVISION UTILITIES TO ALLOW THEM TO PERFORM THEIR WORK. UTILITY WORK WILL BE PAID FOR BY OTHERS. DO NOT INSTALL ANYTHING IN CONFLICT WITH UTILITIES. BRING ALL CONFLICTS TO THE ATTENTION OF THE ENGINEER. OBTAIN LOCATES BEFORE WORKING TO AVOID NEWLY INSTALLED UTILITIES. POWER, TELEPHONE, AND TV UTILITY FACILITIES ARE SHOWN TO INFORM THE CONTRACTOR WHERE AND HOW THEY WILL BE INSTALLED TO ALLOW FOR PROPER COORDINATION. THE POWER, TELEPHONE AND TV UTILITY COMPANIES WILL INSTALL THEIR FACILITIES, NOT THE CONTRACTOR.
- ALL UNDERGROUND CONDUIT SHALL BE SCHEDULE 40 PVC EXCEPT ALL CONDUIT UNDER ASPHALT OR CONCRETE SHALL BE SCHEDULE 80 PVC. PROVIDE SCHEDULE 80 PVC WITHIN 10' OF LIGHT POLE FOUNDATIONS, HANDHOLES AND CONCRETE STRUCTURES. INSTALL CONDUIT PER TRENCH DETAIL ON, SHEET E-404.
- ALL EXTERIOR LIGHTING WIRING SHALL BE IN CABLE WITH COPPER CONDUCTOR, 600V RATED XHHW INSULATION, AND OVERALL PVC JACKET. PROVIDE ADDITIONAL BARE GROUND. USE BARE GROUND TO GROUND HANDHOLES, LIGHT POLES, FOUNDATIONS, ETC. BOND GROUND INSIDE CABLE TO PANEL B AND LIGHT POLES.
- LOCATE EQUIPMENT WHERE SHOWN ON THE STATION AND OFFSET TABLES, SEE SHEET E-301.
- ALL UTILITY WORK NOT IN CONTRACT (NIC). SEE SINGLE LINE AND RISER DIAGRAMS ON SHEETS E-401 TO E-403.
- COORDINATE ALL CONDUIT CROSSING WITH CIVIL INFRASTRUCTURE PRIOR TO WORK. NOT ALL CROSSINGS NOTED ON THE DRAWINGS. CALL FOR LOCATES.
- SIZE CONDUIT AND CONDUCTORS AS REQUIRED PER NEC UNLESS OTHERWISE NOTED. IN ALL CASES, INCREASE CONDUIT AND CONDUCTORS SIZES IF REQUIRED TO MEET NEC.
- ALL CIRCUITS SHALL HAVE A DEDICATED EQUIPMENT GROUNDING CONDUCTOR.
- LIFT STATION IS CONSIDERED A CLASS 1 DIVISION 2 LOCATION. ELECTRICAL WORK ASSOCIATED WITH THE LIFT STATION SHALL COMPLY WITH NEC REQUIREMENTS FOR SUCH HAZARDOUS LOCATIONS.
- PROVIDE PULL STRING IN ALL SPARE CONDUITS.
- BUY AMERICA PROVISIONS APPLY ON THIS PROJECT. SEE SPECIFICATIONS GENERAL CONDITIONS SECTION FOR COMPLETE DETAILS. PRODUCTS CATEGORIZED BELOW ARE EXPECTED TO COMPLY, OTHERS MAY WARRANT INCLUSION. PRIOR TO COMMENCEMENT OF CONSTRUCTION PROVIDE PRODUCT SUBMITTALS WITH EVIDENCE OF COMPLIANCE. CONSIDER MANUFACTURERS LISTED IN PARENTHESIS OR EQUAL.
 - EMT, IMC, GRC, ALUMINUM CONDUIT, INCLUDING FLEX METALLIC CONDUIT (REPUBLIC CONDUIT, WHEATLAND TUBE, ELECTRI-FLEX).
 - CONDUIT CONNECTORS, STRAPS, BUSHINGS, COUPLINGS, HANGERS, LOCKNUTS, ETC. (AMERICAN FITTINGS CORPORATION).
 - METALLIC ENCLOSURES, WIREWAYS, OUTLET BOXES (APPLETON, COPPER B-LINE).
 - LIGHT POLES (LITHONIA, MILLERBERND).
 - ELECTRIC VEHICLE CHARGING STATIONS (CLIPPER CREEK).
- IN THE SPIRIT OF THE PROJECT REQUIREMENTS FOR 'MADE IN THE USA' COMPLIANCE, PROVIDE OTHER ELECTRICAL MATERIALS, EQUIPMENT, AND COMPONENTS OF USA ORIGIN OR USA POINT OF MANUFACTURER (USPOM) THAT ARE NOT SPECIFICALLY REQUIRED PER NOTE 9 ABOVE BUT CAN BE READILY OBTAINED. EXAMPLES OF SUCH PRODUCTS INCLUDE, BUT ARE NOT LIMITED TO THE FOLLOWING:
 - PVC CONDUIT, FITTINGS, ELBOWS, ETC. (PRIME CONDUIT)
 - LIGHT FIXTURES (LITHONIA, OTHERS WITH 'USPOM' MARKINGS).
- PROVIDE SWING TIES ON AS-BUILT DRAWINGS AND 4' OF NO. 3 REBAR AT EVERY CONDUIT LOCATION THAT IS CAPPED BELOW GRADE.

LEGEND	
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
CR	ACCESS CONTROL - CARD READER
DCD	ACCESS CONTROL - DOOR CONTROL DEVICE
EH	ACCESS CONTROL - ELECTRIC HINGE, PER ARCH.
PS	ACCESS CONTROL - POWER SUPPLY
SCU	ACCESS CONTROL - SITE CONTROL UNIT
ACS	ALASKA COMMUNICATIONS (TELEPHONE)
AEL&P	ALASKA ELECTRIC LIGHT & POWER
APPROX	APPROXIMATELY
CU	BARE COPPER
	CAMERA
CA#	CAMERA
CHH#	CAMERA HANDHOLE
CAPL#	CAMERA ONLY POLE
C	CIRCUIT
CKT	CIRCUIT
C/B	CIRCUIT BREAKER
	CIRCUIT BREAKER (AMPS/POLES)
CBJ	CITY & BOROUGH OF JUNEAU
	CONTACTOR
	DATA
DIST	DISTANCE
EV	ELECTRIC VEHICLE
EM	EMERGENCY BATTERY PACK
	EXHAUST FAN
EXTG	EXISTING
	EXIT SIGN
FC	FOOT CANDLE
GRS	GALVANIZED RIGID STEEL
GCI	GENERAL COMMUNICATIONS INC (TV)
GND	GROUND
GFI	GROUND FAULT INTERRUPTER
HOA	HAND-OFF-AUTO

LEGEND	
	HAND-OFF-AUTO SWITCH
HH#	HANDHOLE
J-BOX	JUNCTION BOX
	JUNCTION BOX
L#	LIGHT POLE
	LIGHT POLE WITH LUMINAIRE
LTG	LIGHTING
	LIGHTING CONTACTOR
MAX	MAXIMUM
	METER
MIN	MINIMUM
NEC	NATIONAL ELECTRICAL CODE
NID	NETWORK INTERFACE DEVICE
NOM	NOMINAL
NIC	NOT IN CONTRACT
NM	NON-METALLIC
OH	OVERHEAD
PART	PARTIAL
PED	PEDESTAL
	PHOTOCELL
PVC	POLYVINYL CHLORIDE CONDUIT
	RECEPTACLE
REC	RECEPTACLE
	REPEPTACLE, DOUBLE DOUPLEX
SS	STAINLESS STEEL
SPD	SURGE PROTECTION DEVICE
TMGB	TELECOM MAIN GROUNDING BAR
	THERMOSTAT
XFMR	TRANSFORMER
TYP-#	TYPICAL
UG	UNDERGROUND
UON	UNLESS OTHERWISE NOTED



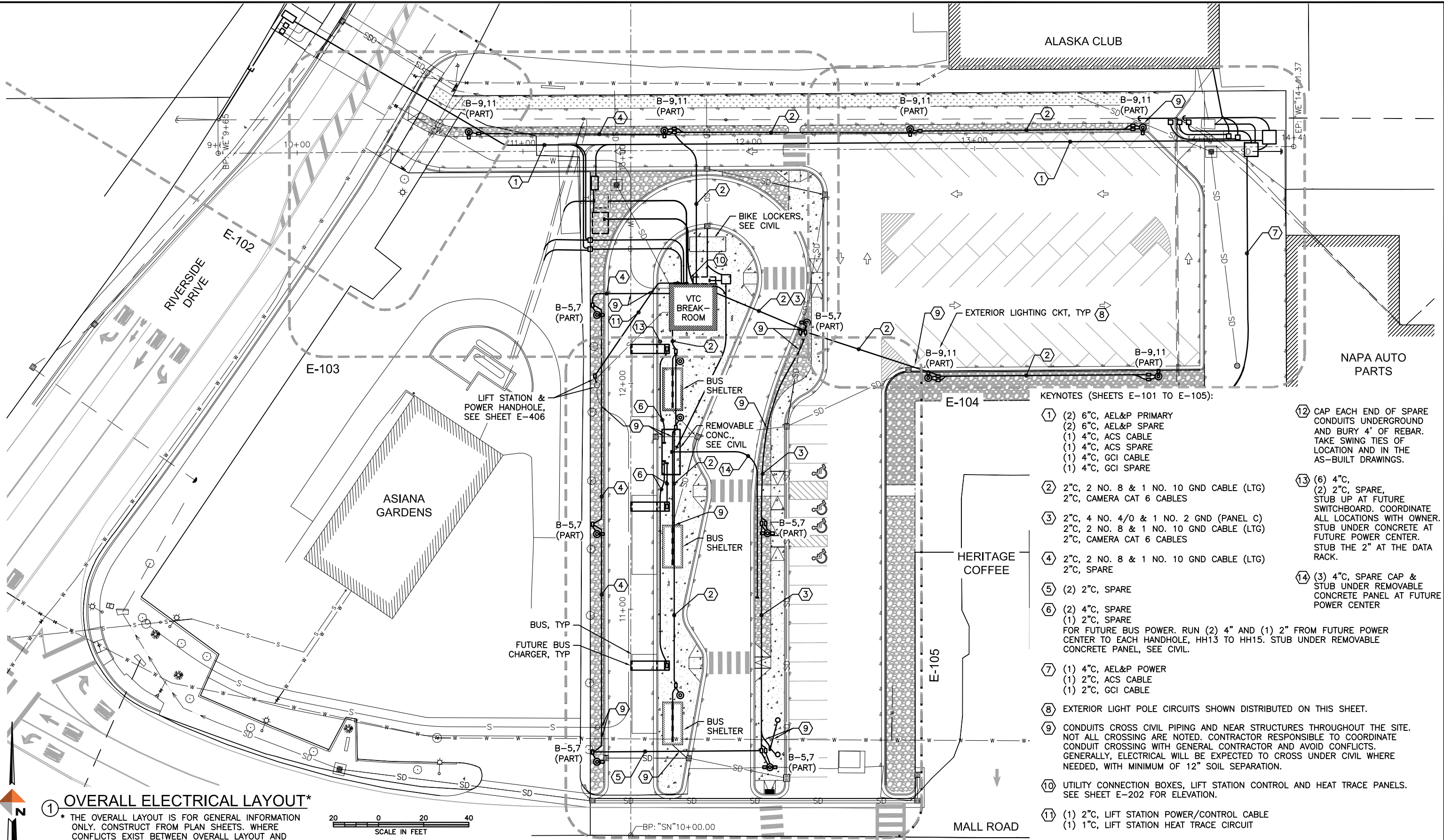
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CAPITAL TRANSIT VALLEY TRANSFER STATION
CONTRACT NO. BE20-268
TITLE, INDEX, LEGEND, AND GENERAL NOTES
MALL ROAD
JUNEAU, ALASKA

PROJECT	71014.01
DATE	4/01/2021
SHEET	
E-100	

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- KEYNOTES (SHEETS E-101 TO E-105):**
- ① (2) 6" C, AEL&P PRIMARY
(2) 6" C, AEL&P SPARE
(1) 4" C, ACS CABLE
(1) 4" C, ACS SPARE
(1) 4" C, GCI CABLE
(1) 4" C, GCI SPARE
 - ② 2" C, 2 NO. 8 & 1 NO. 10 GND CABLE (LTG)
2" C, CAMERA CAT 6 CABLES
 - ③ 2" C, 4 NO. 4/0 & 1 NO. 2 GND (PANEL C)
2" C, 2 NO. 8 & 1 NO. 10 GND CABLE (LTG)
2" C, CAMERA CAT 6 CABLES
 - ④ 2" C, 2 NO. 8 & 1 NO. 10 GND CABLE (LTG)
2" C, SPARE
 - ⑤ (2) 2" C, SPARE
 - ⑥ (2) 4" C, SPARE
(1) 2" C, SPARE
FOR FUTURE BUS POWER. RUN (2) 4" AND (1) 2" FROM FUTURE POWER CENTER TO EACH HANDHOLE, HH13 TO HH15. STUB UNDER REMOVABLE CONCRETE PANEL, SEE CIVIL.
 - ⑦ (1) 4" C, AEL&P POWER
(1) 2" C, ACS CABLE
(1) 2" C, GCI CABLE
 - ⑧ EXTERIOR LIGHT POLE CIRCUITS SHOWN DISTRIBUTED ON THIS SHEET.
 - ⑨ CONDUITS CROSS CIVIL PIPING AND NEAR STRUCTURES THROUGHOUT THE SITE. NOT ALL CROSSING ARE NOTED. CONTRACTOR RESPONSIBLE TO COORDINATE CONDUIT CROSSING WITH GENERAL CONTRACTOR AND AVOID CONFLICTS. GENERALLY, ELECTRICAL WILL BE EXPECTED TO CROSS UNDER CIVIL WHERE NEEDED, WITH MINIMUM OF 12" SOIL SEPARATION.
 - ⑩ UTILITY CONNECTION BOXES, LIFT STATION CONTROL AND HEAT TRACE PANELS. SEE SHEET E-202 FOR ELEVATION.
 - ⑪ (1) 2" C, LIFT STATION POWER/CONTROL CABLE
(1) 1" C, LIFT STATION HEAT TRACE CIRCUIT
 - ⑫ CAP EACH END OF SPARE CONDUITS UNDERGROUND AND BURY 4' OF REBAR. TAKE SWING TIES OF LOCATION AND IN THE AS-BUILT DRAWINGS.
 - ⑬ (6) 4" C,
(2) 2" C, SPARE,
STUB UP AT FUTURE SWITCHBOARD. COORDINATE ALL LOCATIONS WITH OWNER. STUB UNDER CONCRETE AT FUTURE POWER CENTER. STUB THE 2" AT THE DATA RACK.
 - ⑭ (3) 4" C, SPARE CAP & STUB UNDER REMOVABLE CONCRETE PANEL AT FUTURE POWER CENTER

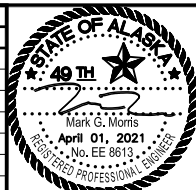
① OVERALL ELECTRICAL LAYOUT*

* THE OVERALL LAYOUT IS FOR GENERAL INFORMATION ONLY. CONSTRUCT FROM PLAN SHEETS. WHERE CONFLICTS EXIST BETWEEN OVERALL LAYOUT AND PLAN SHEETS, REFER TO PLAN SHEETS.



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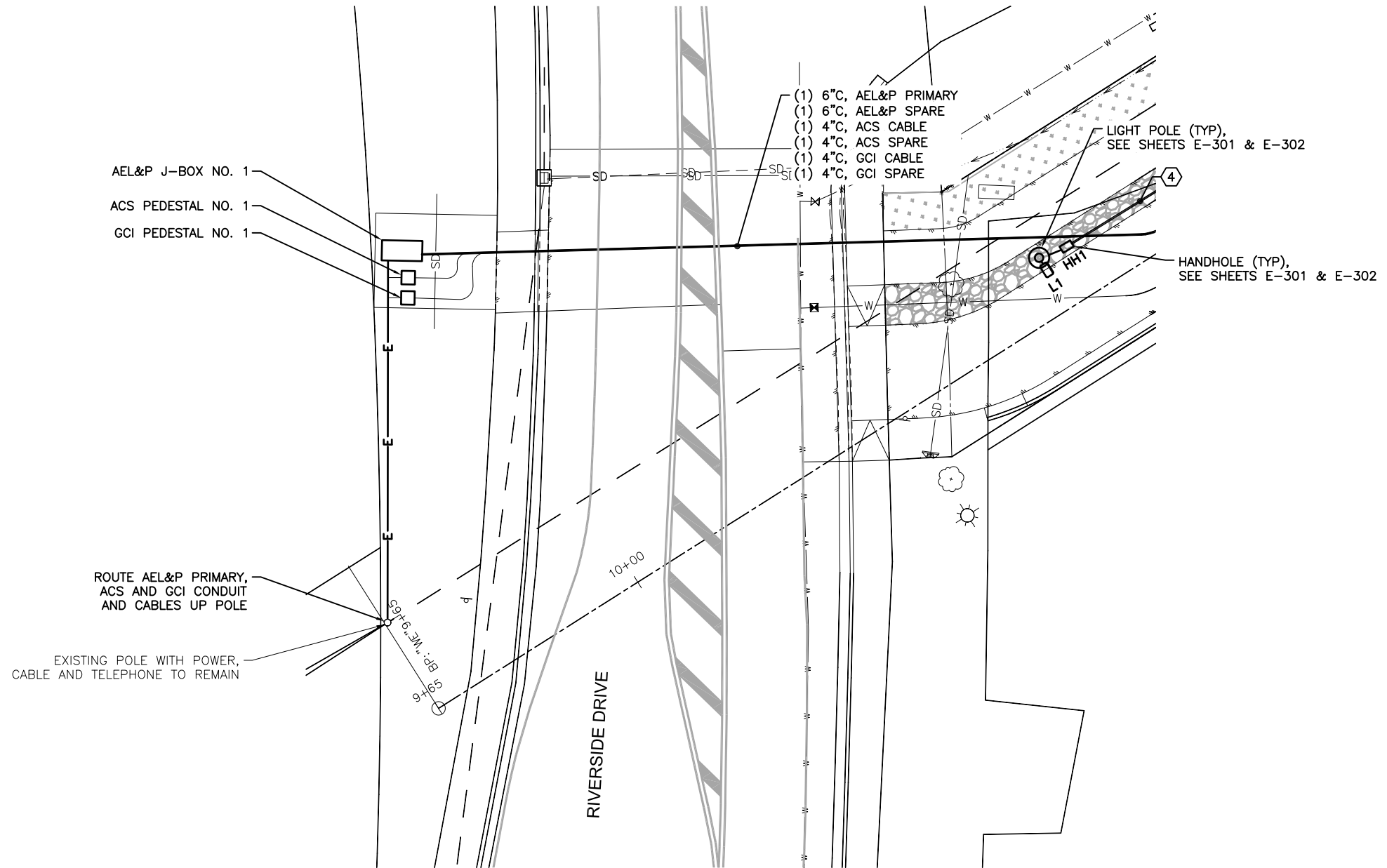
CITY AND BOROUGH OF JUNEAU
 ALASKA'S CAPITAL CITY

CAPITAL TRANSIT VALLEY TRANSFER STATION
 CONTRACT NO. BE20-268
 OVERALL SITE PLAN AND KEY MAP

MALL ROAD
 JUNEAU, ALASKA

PROJECT	71014.01
DATE	4/01/2021
SHEET	E-101

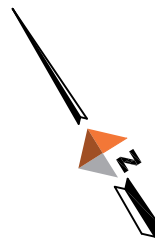
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SEE SHEET E-103 FOR ENLARGED SITE PLAN (2 OF 4)

SHEET NOTES:

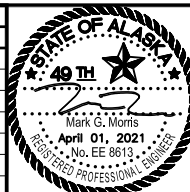
- SEE OVERALL SITE PLAN, SHEET E-101, FOR KEYNOTE REFERENCES.
- MUCH OF THE WORK ON THIS SHEET IS NOT IN CONTRACT. SEE SHEETS E-401 TO E-403.



① ENLARGED SITE PLAN (1 OF 4)



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CAPITAL TRANSIT VALLEY TRANSFER STATION
CONTRACT NO. BE20-268
ENLARGED SITE PLAN (1 OF 4)

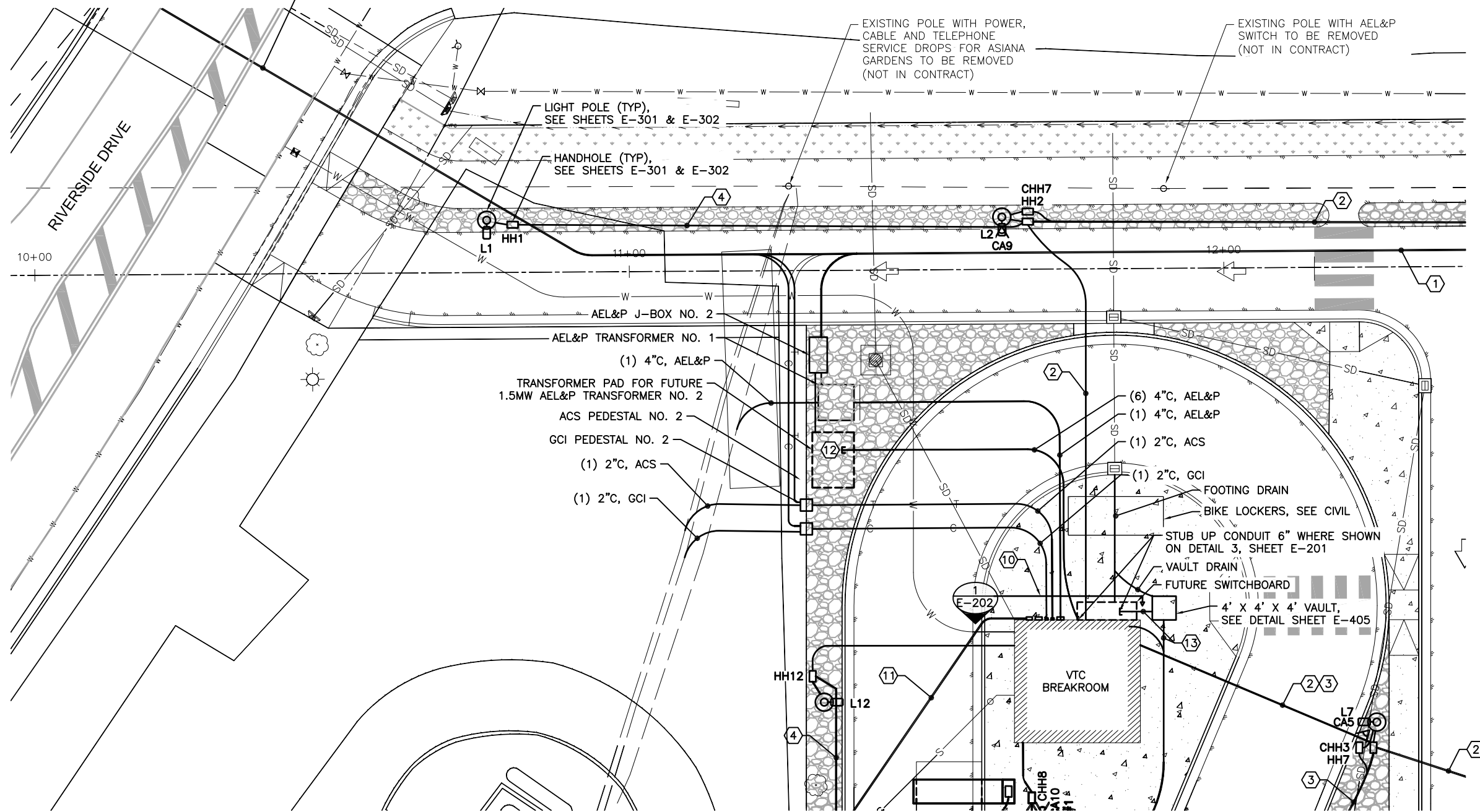
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JUNEAU, ALASKA

PROJECT	71014.01
DATE	4/01/2021
SHEET	E-102

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SEE SHEET E-102 FOR ENLARGED SITE PLAN (1 OF 4)

- (1) 6" C, AEL&P PRIMARY
- (1) 6" C, AEL&P SPARE
- (1) 4" C, ACS CABLE
- (1) 4" C, ACS SPARE
- (1) 4" C, GCI CABLE
- (1) 4" C, GCI SPARE



SEE SHEET E-104 FOR ENLARGED SITE PLAN (3 OF 4)

SEE SHEET E-105 FOR ENLARGED SITE PLAN (4 OF 4)

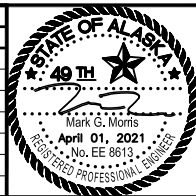
- SHEET NOTES:
- SEE OVERALL SITE PLAN, SHEET E-101, FOR KEYNOTE REFERENCES.
 - MUCH OF THE WORK ON THIS SHEET IS NOT IN CONTRACT. SEE SHEETS E-401 TO E-403.



1 ENLARGED SITE PLAN (2 OF 4) 0 10 20
SCALE IN FEET

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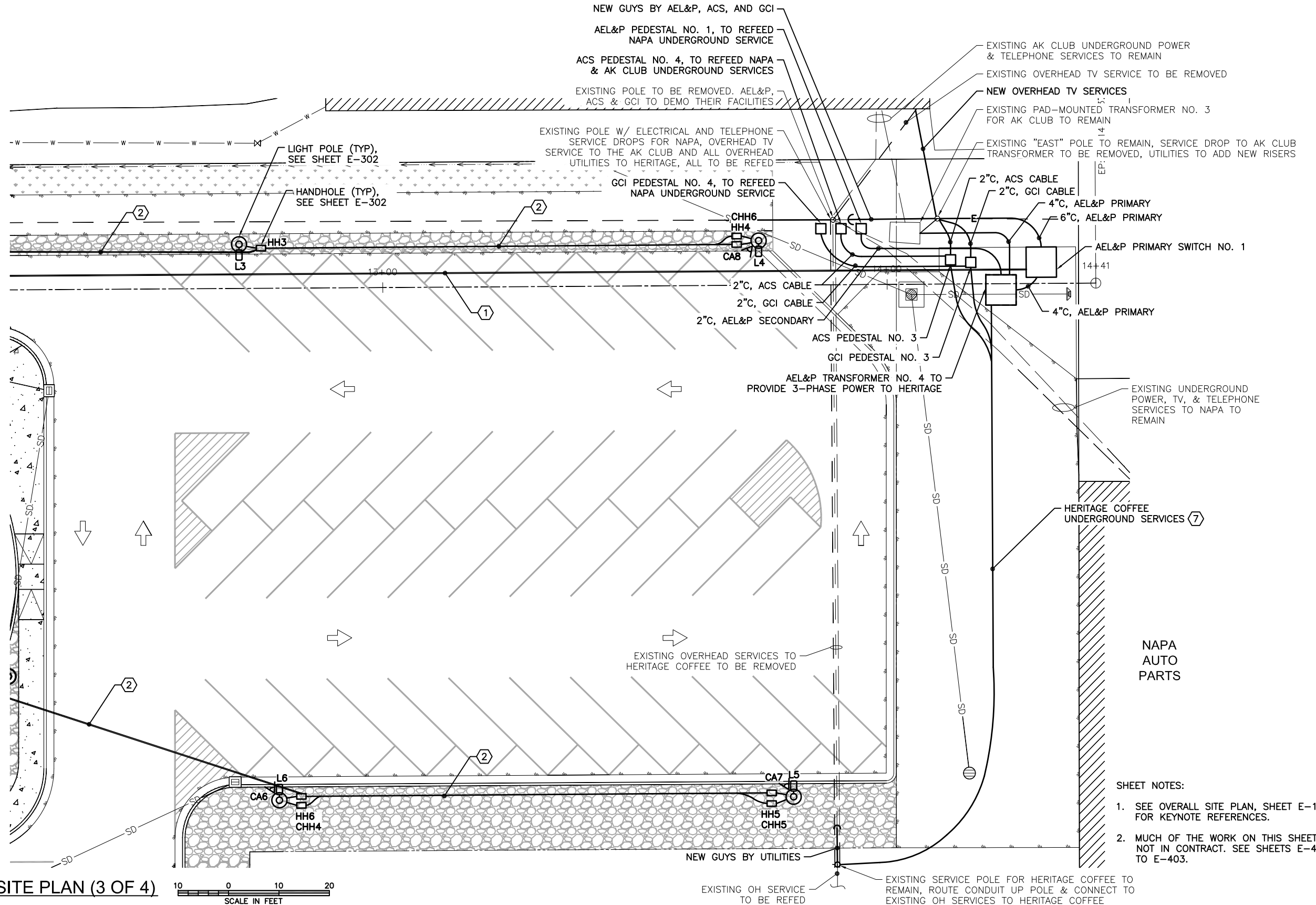
CITY AND BOROUGH OF JUNEAU
ALASKA'S CAPITAL CITY

CAPITAL TRANSIT VALLEY TRANSFER STATION
CONTRACT NO. BE20-268
ENLARGED SITE PLAN (2 OF 4)
MALL ROAD
JUNEAU, ALASKA

PROJECT 71014.01
DATE 4/01/2021
SHEET
E-103

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SEE SHEET E-103 FOR ENLARGED SITE PLAN (2 OF 4)



1 ENLARGED SITE PLAN (3 OF 4)

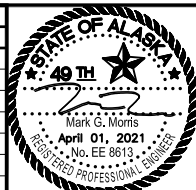


- SHEET NOTES:
- SEE OVERALL SITE PLAN, SHEET E-101, FOR KEYNOTE REFERENCES.
 - MUCH OF THE WORK ON THIS SHEET IS NOT IN CONTRACT. SEE SHEETS E-401 TO E-403.



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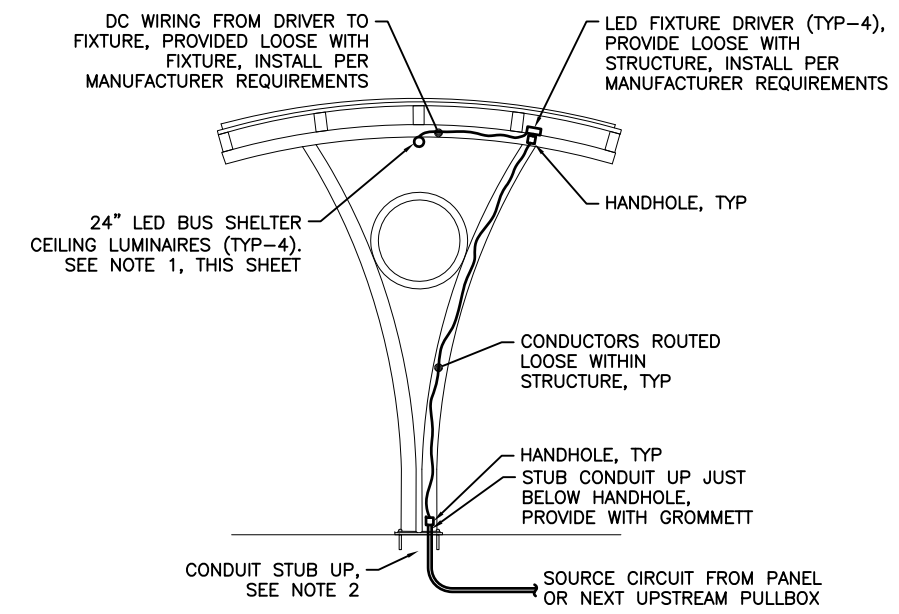
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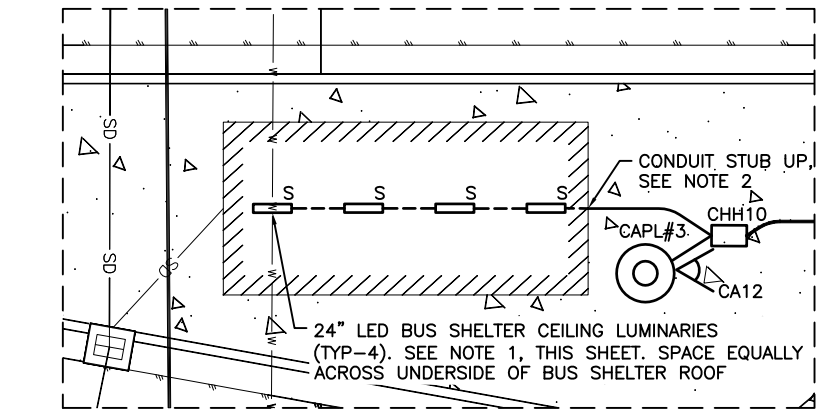
CAPITAL TRANSIT VALLEY TRANSFER STATION
 CONTRACT NO. BE20-268
 ENLARGED SITE PLAN (3 OF 4)
 MALL ROAD
 JUNEAU, ALASKA

PROJECT	71014.01
DATE	4/01/2021
SHEET	E-104

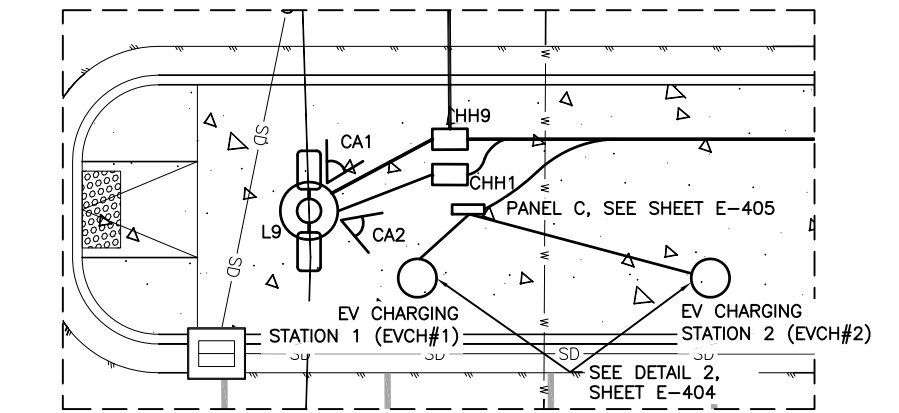
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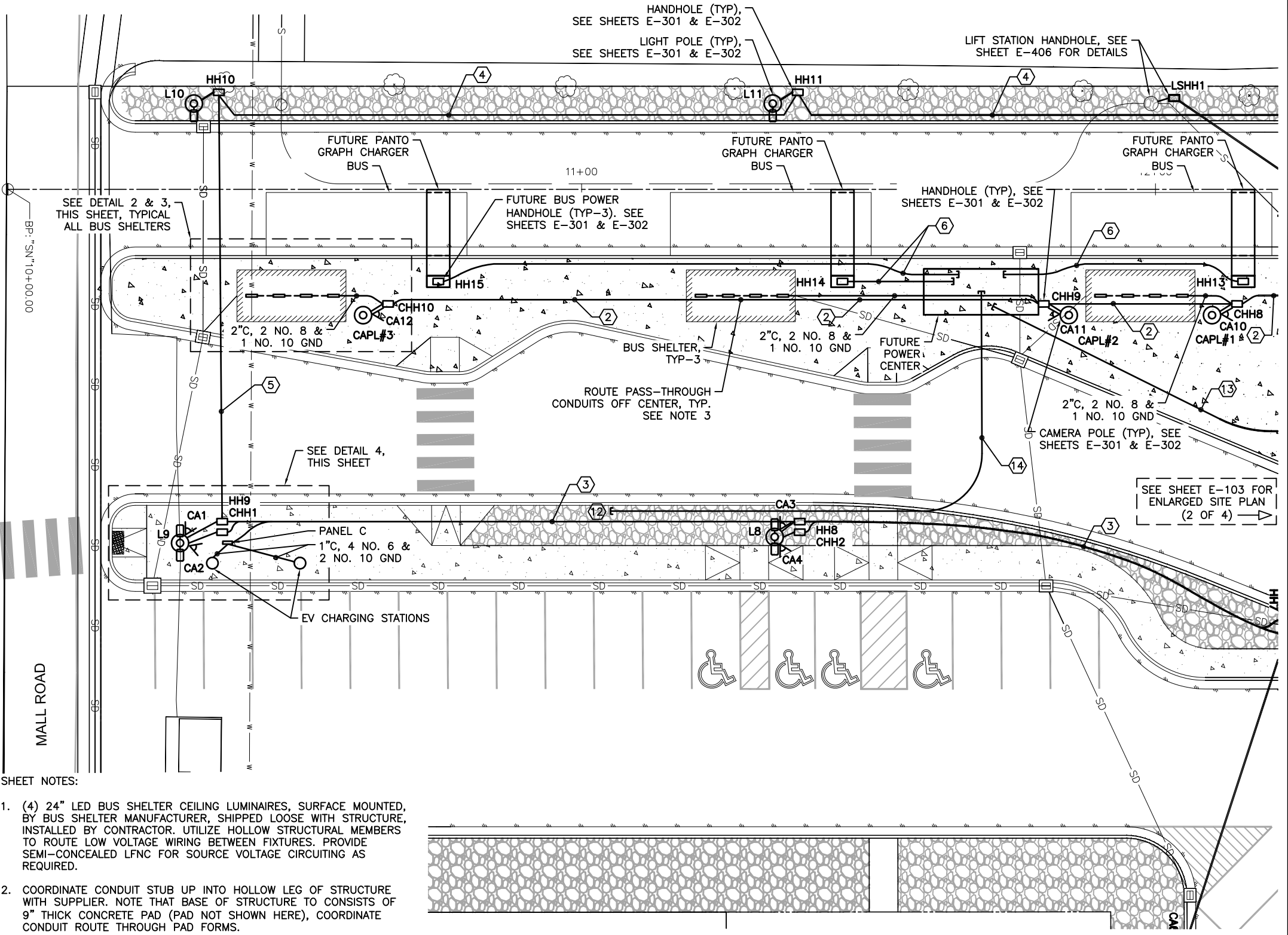
② BUS SHELTER END ELEVATION (TYP)
NO SCALE



③ BUS SHELTER DETAIL (TYP)
SCALE IN FEET



④ POLE AND CHARGERS DETAIL
SCALE IN FEET

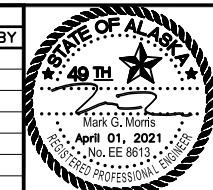


① ENLARGED SITE PLAN (4 OF 4)
SCALE IN FEET

- SHEET NOTES:
- (4) 24" LED BUS SHELTER CEILING LUMINAIRES, SURFACE MOUNTED, BY BUS SHELTER MANUFACTURER, SHIPPED LOOSE WITH STRUCTURE, INSTALLED BY CONTRACTOR. UTILIZE HOLLOW STRUCTURAL MEMBERS TO ROUTE LOW VOLTAGE WIRING BETWEEN FIXTURES. PROVIDE SEMI-CONCEALED LFNC FOR SOURCE VOLTAGE CIRCUITING AS REQUIRED.
 - COORDINATE CONDUIT STUB UP INTO HOLLOW LEG OF STRUCTURE WITH SUPPLIER. NOTE THAT BASE OF STRUCTURE TO CONSISTS OF 9" THICK CONCRETE PAD (PAD NOT SHOWN HERE), COORDINATE CONDUIT ROUTE THROUGH PAD FORMS.
 - CONDUITS THAT CONTINUE PAST CANOPY OFF CENTER TO AVOID ROUTING DIRECTLY BENEATH CANOPY SUPPORT COLUMNS.
 - SEE OVERALL SITE PLAN, SHEET E-101, FOR KEYNOTE REFERENCES.



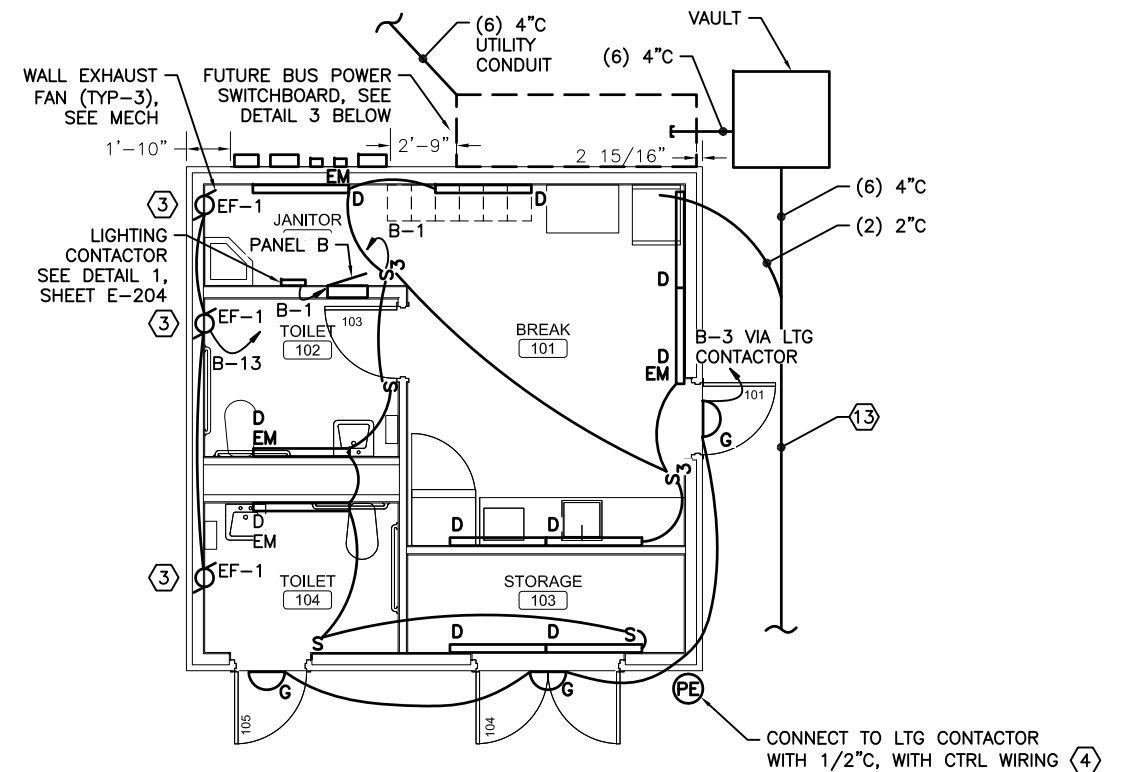
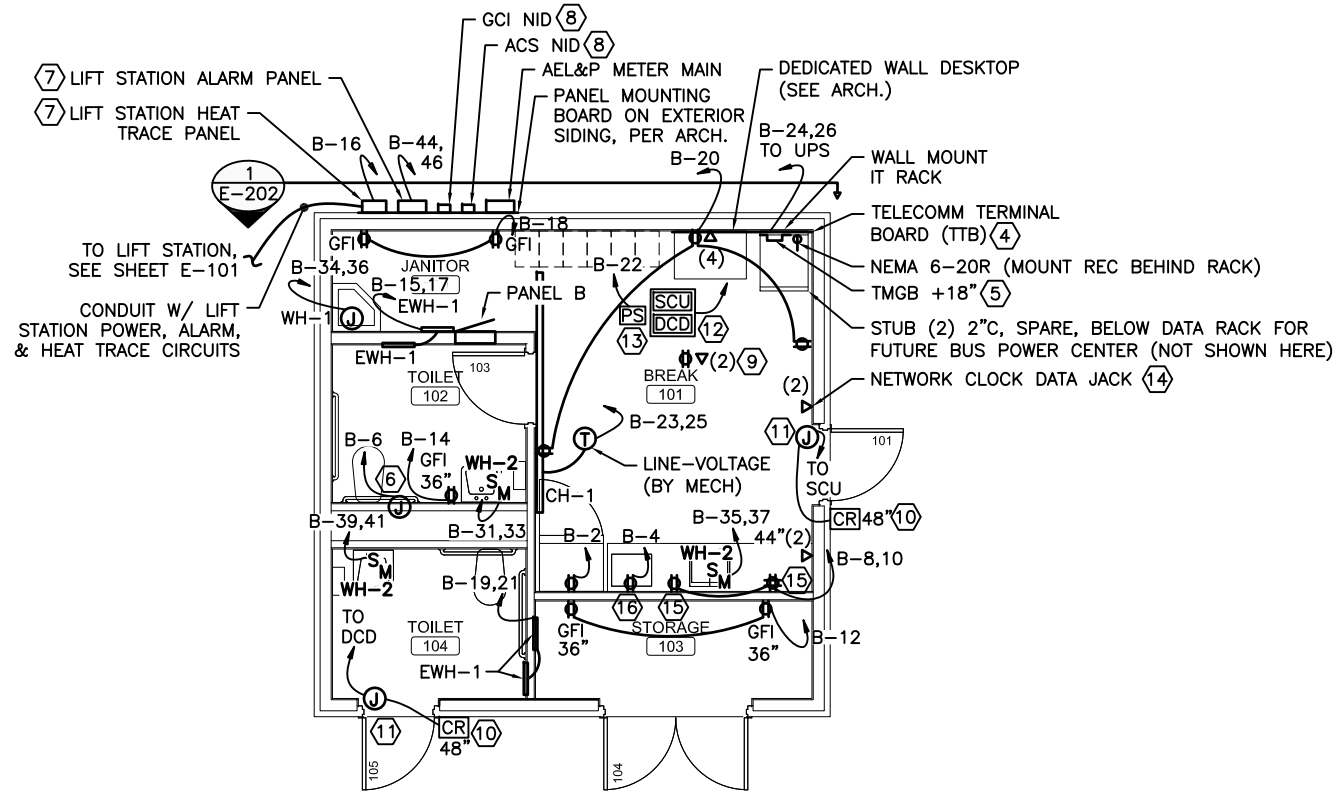
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CAPITAL TRANSIT VALLEY TRANSFER STATION
 CONTRACT NO. BE20-268
 ENLARGED SITE PLAN (4 OF 4)
 MALL ROAD
 JUNEAU, ALASKA

PROJECT	71014.01
DATE	4/01/2021
SHEET	E-105

X:\129 dowl engineering\30 valley transit center\working drawings\BVC BUILDING FLOOR PLANS.dwg PLOT DATE 2021-04-01 11:50 SAVED DATE 2021-04-01 10:48 USER: jodi



NOTES (APPLICABLE TO DETAIL 1):

1. USE NUMBER OF AND SIZE CONDUCTORS AND CONDUIT AS REQUIRED.
2. UNLESS OTHERWISE NOTED, USE 3/4" C IN BUILDING EXCEPT FOR DATA USE 1" C. CONCEAL ALL CONDUIT. ROUTE DATA CONDUIT CONCEALED TO BACK OF IT RACK THEN THROUGH JUNCTION BOX IN WALL WITH NO COVER IN BACK OF IT RACK.
3. USE THWN INSULATED COPPER WIRE IN BUILDING.
4. 3/4" D X 30" W X 72" H (NOM., CUT TO SIZE) 3-PLY PLYWOOD BOARD AS THE TELECOM TERMINAL BOARD (TTB). PAINT WITH TWO COATS OF FIRE RETARDANT PAINT, MATCHED TO WALL PAINT COLOR. MOUNT TOP OF BOARD AT 84" ABOVE FINISHED GRADE. INSTALL IT RACK, TMGB, AND RACK RECEPTACLE ON BOARD.
5. PROVIDE TELECOM MAIN GROUNDING BAR (TMGB) BELOW IT RACK, SEE DETAIL 8 SHEET A-102 FOR ELEVATION, AND SEE DETAIL 2, SHEET E-205.
6. PROVIDE JUNCTION BOX FLUSH IN WALL ABOVE STALL IN STAFF TOILET WITH SWITCH AND TRANSFORMER FOR HARDWIRED FLUSH VALVES. COORDINATE WORK WITH PLUMBER. SEE DETAIL 2 ON SHEET E-204 FOR MORE INFORMATION. PROVIDE WIRING TO REMAINING TOILETS IN SAME MANNER. POWER BOTH TOILETS FROM THIS COMMON JUNCTION BOX.
7. COORDINATE HOME RUN CIRCUITS TO LIFT STATION PANELS AND CIRCUITS OUT TO LIFT STATION WITH OTHER TRADES. SEE E-405 FOR DETAILS.
8. COORDINATE INSTALLATION OF ACS AND GCI NETWORK INTERFACE DEVICES (NID) ON BUILDING EXTERIOR WITH UTILITIES. FROM ACS NID RUN (1) 1" CONDUIT TO IT RACK BUILDING WITH (2) CAT 6 CABLES. FROM GCI NID RUN (1) 1" CONDUIT SPARE WITH PULLSTRING TO IT RACK FOR FUTURE SERVICE NEEDS.

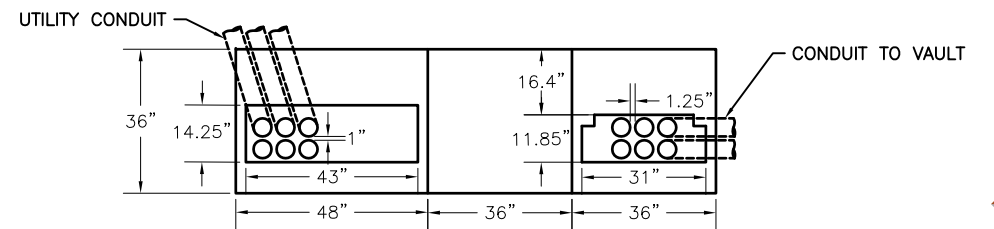
9. PROVIDE A CEILING MOUNTED 120V RECEPTACLE AND RJ45 DATA JACK OUTLET FOR WIRELESS ACCESS POINT. POWER RECEPTACLE FROM AREA GENERAL USE RECEPTACLE.
10. PROVIDE A BLACK, EXTERIOR RATED, MULTI-CLASS PROXIMITY CARD READY AT DOOR. HID RP40 OR EQUAL. SURFACE MOUNT TO SINGLE GANG BOX MOUNTED FLUSH IN EXTERIOR SIDING. FEED WITH CIRCUIT FROM SCU OR DCD AS NOTED ON ACCESS SCHEMATIC, SEE SHEET E-202.
11. DOOR WILL BE PROVIDED WITH ELECTRONIC LOCK, POWERED HINGE, AND WIRING HARNESS. SEE ARCHITECTURAL SPECS. COORDINATE WITH DOOR HARDWARE SUPPLIER TO PROVIDE A 8-CONDUCTOR CABLE FROM A 4" SQUARE JUNCTION BOX ABOVE DOOR TO HINGE CONNECT. SEE SCHEMATIC ON SHEET E-202 FOR MORE DETAILS.
12. PROVIDE INDIVIDUAL DOOR CONTROLLERS IN A COMMON, LOCKABLE ENCLOSURE MOUNTED TO THE TTB BOARD ADJACENT TO THE IT RACK. SEE SCHEMATIC ON SHEET E-202.
13. PROVIDE A DEDICATED POWER SUPPLY IN LOCKABLE ENCLOSURE TO POWER CARD ACCESS SYSTEM. MOUNT ADJACENT TO DOOR CONTROLLER BOX. SEE SCHEMATIC ON SHEET E-202.
14. SURFACE MOUNT SINGLE GANG BOX WITH RJ45 FACEPLATE FOR NETWORK TIME CLOCK. CLOCK BY OWNER. VERIFY EXACT HEIGHT WITH ARCHITECT PRIOR TO ROUGH-IN.
15. SPLIT THE INDIVIDUAL RECEPTACLES EVENLY ACROSS THE TWO SOURCE 120V CIRCUITS. MOUNT RECEPTACLES AT 44" AFF AND PROVIDE AS GFI TYPE.
16. MOUNT RECEPTACLES AT 44" AFF AND PROVIDE AS GFI TYPE.

NOTES (APPLICABLE TO DETAIL 2):

1. PROVIDE A SWITCHED AND NON SWITCHED CONDUCTOR TO EACH TYPE D LUMINAIRE TO POWER EM BALLAST/DRIVER.
2. SEE LIGHT FIXTURE SCHEDULE AND ARCHITECTURAL ELEVATIONS FOR LIGHT FIXTURE MOUNTING HEIGHT INFORMATION.
3. EXHAUST FANS SHALL RUN CONTINUOUSLY. CIRCUIT TOGETHER TO DEDICATED CIRCUIT. POWER EACH FROM A RECESSED SIMPLEX OUTLET, COORDINATE WORK WITH MECHANICAL.
4. NEMA 3R RATED PE CELL 120V WITH 1-2 FC (ON) AND 3-5 FC (OFF) ADJUSTABLE AND FAIL ON DESIGN, TORK 2000-2 OR INTERMATIC K4123CMX OR EQUAL. CIRCUIT IN SERIES WITH AUTO LEG OF EXTERIOR LIGHTING CONTRACTOR FOR AUTOMATIC LIGHTING CONTROL. SCREW PE CELL TO SIDE OF 4" SQ. NEMA 3R GASKETED BOX ON EXTERIOR WALL OF BUILDING. AIM AWAY FROM AREA ARTIFICIAL LIGHT SOURCES.

1 FLOOR PLAN - POWER & SIGNAL

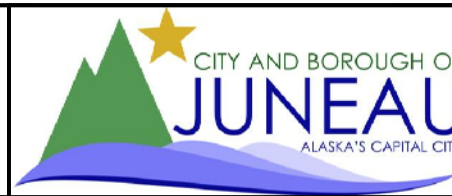
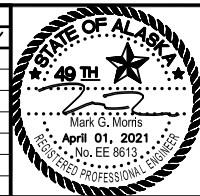
2 FLOOR PLAN - LIGHTING



3 FUTURE SWITCHBOARD



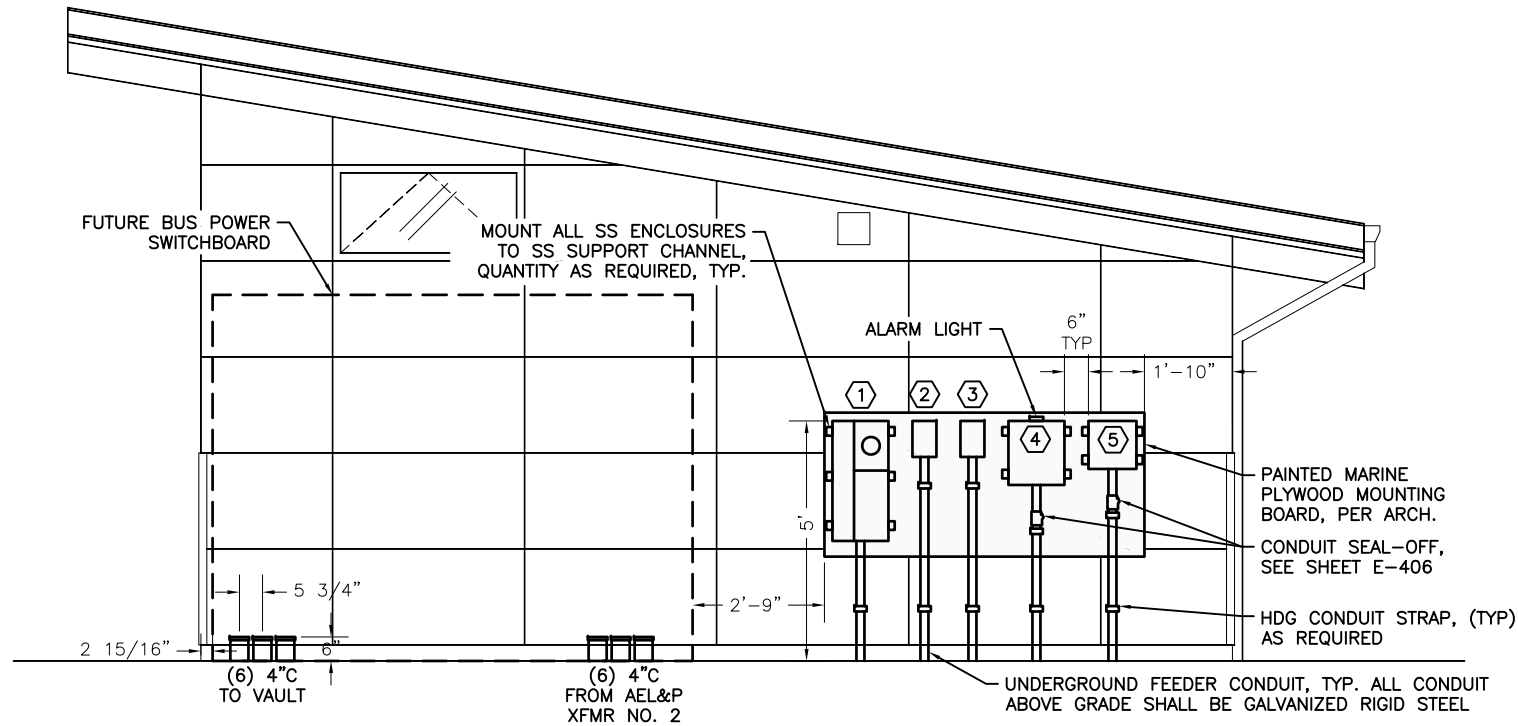
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REV	DATE	DESCRIPTION	BY



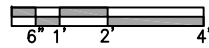
CAPITAL TRANSIT VALLEY TRANSFER STATION
 CONTRACT NO. BE20-268
 BREAKROOM FLOOR PLANS
 MALL ROAD
 JUNEAU, ALASKA

PROJECT	71014.01
DATE	4/01/2021
SHEET	E-201

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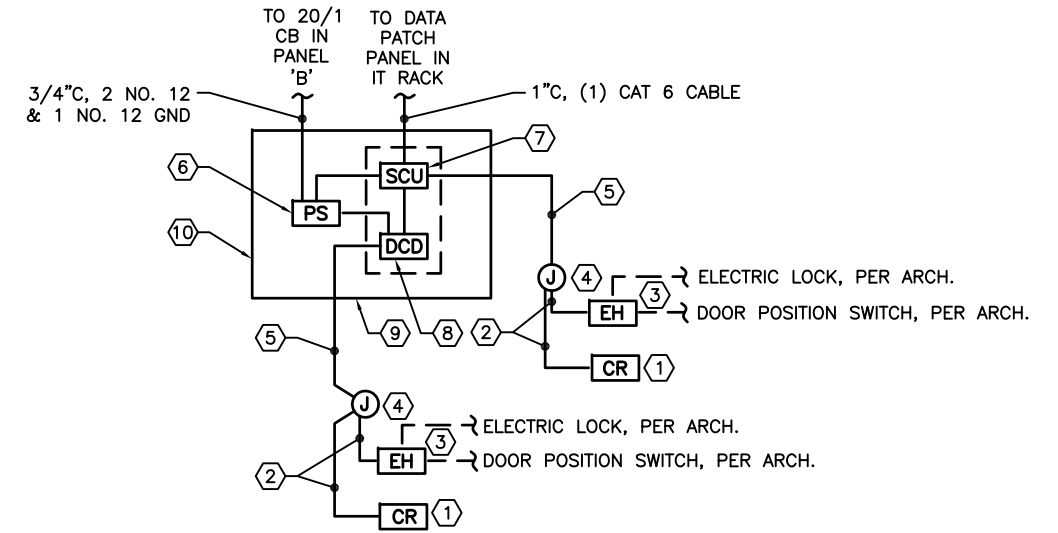


① BREAKROOM EXTERIOR ELEVATION - NORTH SIDE



NOTES (APPLICABLE TO DETAIL 1):

- ① METER MAIN, SEE SHEET E-203 FOR SCHEMATIC.
- ② ASC (TELECO) NETWORK INTERFACE DEVICE.
- ③ GCI (TELEVISION) NETWORK INTERFACE DEVICE.
- ④ LIFT STATION ALARM / CONTROL PANEL.. SEE SHEETS E-203 AND E-406 FOR SCHEMATICS AND MOUNTING DETAILS.
- ⑤ LIFT STATION HEAT TRACE CONTROL PANEL. SEE SHEETS E-203 AND E-406 FOR SCHEMATICS AND MOUNTING DETAILS.
- 6. COORDINATE INSTALLATION OF ALL EXTERIOR PANELS AND ENCLOSURES WITH GENERAL CONTRACTOR. ALL UNITS TO BE MOUNTED ON PLYWOOD BOARD PROVIDED PER ARCHITECTURAL DRAWINGS.
- 7. PROVIDE ALL STAINLESS STEEL MOUNTING HARDWARE.
- 8. FOR THE UTILITY CONDUIT AND CIRCUIT INFORMATION SHOWN ON THIS SHEET, SEE SHEET E-203 FOR POWER CIRCUIT, SHEET E-402 FOR ACS CIRCUIT, AND SHEET E-403 FOR GCI CIRCUIT INFORMATION.
- 9. ALL EQUIPMENT MOUNTED ON OUTSIDE WALL SHALL BE SET PLUMB AND SQUARE. EXACT SEPARATION OF ENCLOSURES AND MOUNTING HEIGHTS SHALL BE REVIEWED BY THE ENGINEER PRIOR TO WORK.



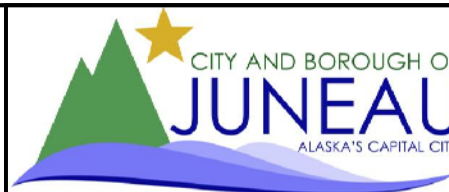
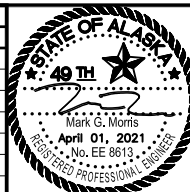
② ACCESS CONTROL SCHEMATIC
NO SCALE

NOTES (APPLICABLE TO DETAIL 2):

- ① EXTERIOR PROXIMITY CARD READER, HID RP40 OR EQUAL.
- ② 3/4" C, WITH COMPOSITE CABLE PER KEYNOTE 5 BELOW. ALTERNATIVELY, CONTRACTOR MAY SUBMIT INDIVIDUAL CARD READER AND DOOR LOCK CABLES FOR CONSIDERATION.
- ③ ELECTRIFIED HINGE, INTERNAL DOOR WIRING, AND DOOR LOCK AND POSITION SWITCH PER ARCHITECTURAL. COORDINATE WITH DOOR HARDWARE SUPPLIER.
- ④ 4" SQUARE JUNCTION ABOVE DOOR. SPLIT OUT INDIVIDUAL CARD READER AND ELECTRONIC LOCK FEEDS AT BOX DOWN TO EACH DEVICE.
- ⑤ 3/4" C, WITH COMPOSITE CABLE. CABLE TO INCLUDE 6-22, 2-22, 4-18, AND 4-22 FOR READER, DOOR CONTACTS, LOCK POWER, AND REX DEVICES. WEST PENN #AC1822 OR EQUAL.
- ⑥ DEDICATED 120V:12VDC POWER SUPPLY FOR ACCESS CONTROL SYSTEM. ALTRONIX 600UL OR EQUAL. MOUNT TO THE TTB ADJACENT TO IT RACK. PROVIDE 3-14 POWER CABLE IN CONDUIT TO EACH DOWNSTREAM DEVICE.
- ⑦ SITE CONTROLLER WITH INTEGRAL 1-DOOR CONTROL DEVICE. TYCO MILLENNIUM NETDCD1 OR EQUAL. PROVIDE ALL SYSTEM SETUP, TESTING, COMMISSIONING, AND PROGRAMMING PER MANUFACTURER REQUIREMENTS AND CBJ TRANSIT REQUIREMENTS. MOUNT IN COMMON ENCLOSURE PER KEYNOTE 9.
- ⑧ DOOR CONTROL DEVICE FOR 1-DOOR APPLICATION. TYCO MILLENNIUM EDCD OR EQUAL. PROVIDE ALL SYSTEM SETUP, TESTING COMMISSIONING, AND PROGRAMMING PER MANUFACTURER REQUIREMENTS AND CBJ TRANSIT REQUIREMENTS. MOUNT IN COMMON ENCLOSURE PER KEYNOTE 9.
- ⑨ MOUNT THE TWO DOOR CONTROLLER MODULES IN A COMMON, LOCKABLE ENCLOSURE. TYCO MILLENNIUM 062-510235 OR EQUAL. MOUNT TO THE TTB ADJACENT TO THE IT RACK.
- ⑩ MOUNT POWER SUPPLY, AND DOOR CONTROLLER ENCLOSURE ON THE TELEPHONE TERMINAL BOARD (TTB) ADJACENT TO THE IT RACK. COORDINATE EXACT LOCATION ON BOARD WITH RACK SWING OUT REQUIREMENTS.



REVISIONS			
REV	DATE	DESCRIPTION	BY



CAPITAL TRANSIT VALLEY TRANSFER STATION
CONTRACT NO. BE20-268

BREAKROOM ELEVATION AND
ACCESS CONTROL SCHEMATIC

MALL ROAD
JUNEAU, ALASKA

PROJECT 71014.01
DATE 4/01/2021

SHEET

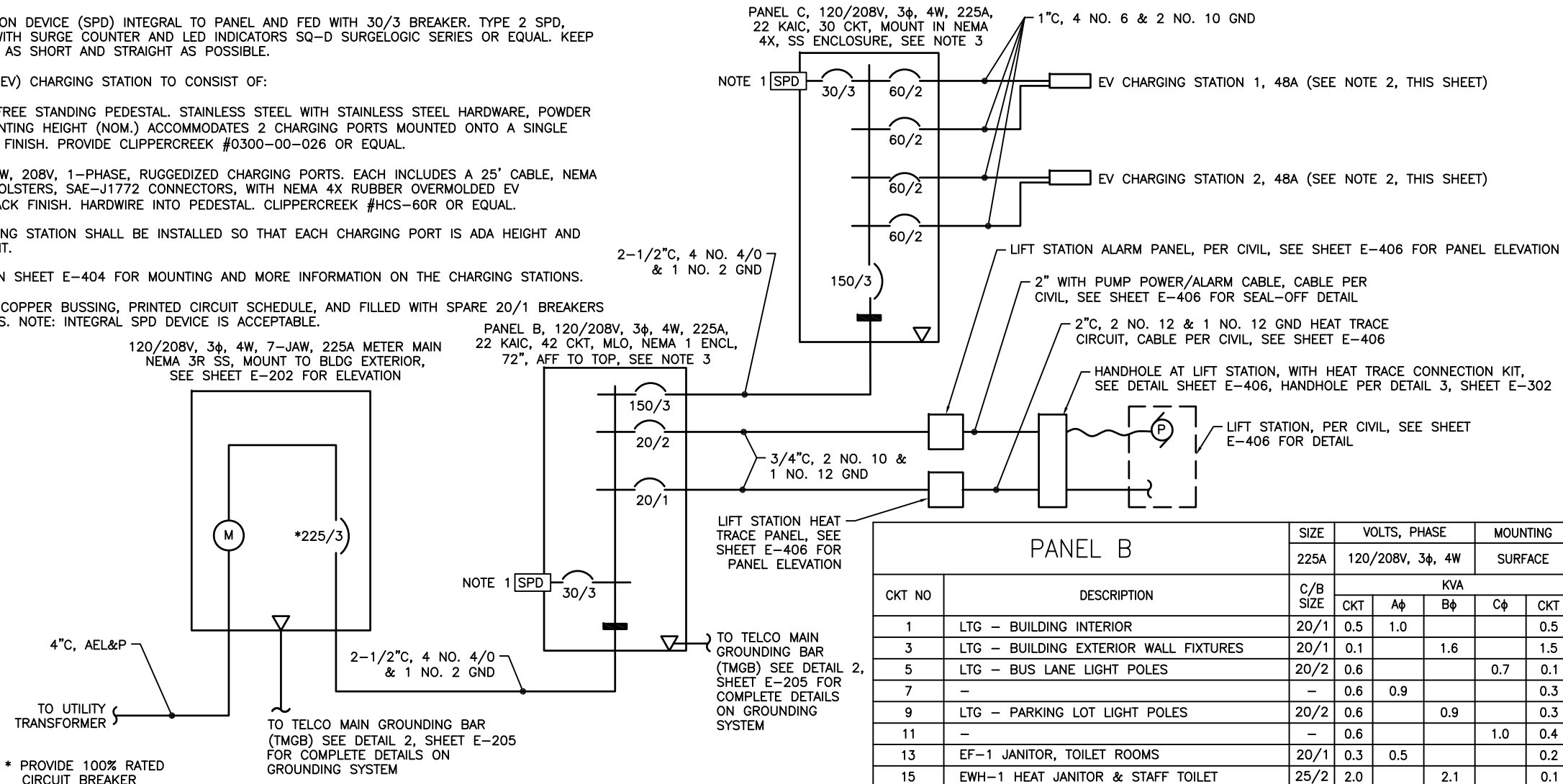
E-202

SHEET NOTES:

- PROVIDE SURGE PROTECTION DEVICE (SPD) INTEGRAL TO PANEL AND FED WITH 30/3 BREAKER. TYPE 2 SPD, 80KA RATED, 10 MODE, WITH SURGE COUNTER AND LED INDICATORS SQ-D SURGELOGIC SERIES OR EQUAL. KEEP CONDUCTORS TO DEVICES AS SHORT AND STRAIGHT AS POSSIBLE.
- EACH ELECTRIC VEHICLE (EV) CHARGING STATION TO CONSIST OF:
 - ONE (1) RUGGEDIZED FREE STANDING PEDESTAL. STAINLESS STEEL WITH STAINLESS STEEL HARDWARE, POWDER COATED, AND 44" MOUNTING HEIGHT (NOM.) ACCOMMODATES 2 CHARGING PORTS MOUNTED ONTO A SINGLE PEDESTAL. FLAT BLACK FINISH. PROVIDE CLIPPERCREEK #0300-00-026 OR EQUAL.
 - TWO (2) LEVEL 2, 10KW, 208V, 1-PHASE, RUGGEDIZED CHARGING PORTS. EACH INCLUDES A 25' CABLE, NEMA 4 ENCLOSURE, WALL HOLSTERS, SAE-J1772 CONNECTORS, WITH NEMA 4X RUBBER OVERMOLDED EV CONNECTORS. FLAT BLACK FINISH. HARDWIRE INTO PEDESTAL. CLIPPERCREEK #HCS-60R OR EQUAL.

NOTE: EACH EV CHARGING STATION SHALL BE INSTALLED SO THAT EACH CHARGING PORT IS ADA HEIGHT AND REACH COMPLIANT.

NOTE: SEE DETAIL 2 ON SHEET E-404 FOR MOUNTING AND MORE INFORMATION ON THE CHARGING STATIONS.
- ALL PANELS TO INCLUDE COPPER BUSSING, PRINTED CIRCUIT SCHEDULE, AND FILLED WITH SPARE 20/1 BREAKERS AT ALL UNUSED POSITIONS. NOTE: INTEGRAL SPD DEVICE IS ACCEPTABLE.



① SINGLE LINE DIAGRAM

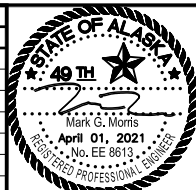
PANEL B		SIZE	VOLTS, PHASE		MOUNTING		MAIN	LOCATION		
CKT NO	DESCRIPTION	C/B SIZE	KVA			C/B SIZE	DESCRIPTION	CKT NO		
			CKT	Aφ	Bφ				Cφ	CKT
1	LTG - BUILDING INTERIOR	20/1	0.5	1.0		0.5	20/1	REC REFRIGERATOR (GFI TYPE)	2	
3	LTG - BUILDING EXTERIOR WALL FIXTURES	20/1	0.1		1.6	1.5	20/1	REC MICROWAVE	4	
5	LTG - BUS LANE LIGHT POLES	20/2	0.6			0.7	20/1	TOILET FLUSH VALVES	6	
7	-	-	0.6	0.9			0.3	20/1	REC COUNTER	8
9	LTG - PARKING LOT LIGHT POLES	20/2	0.6		0.9		0.3	20/1	REC COUNTER	10
11	-	-	0.6			1.0	0.4	20/1	REC STORAGE	12
13	EF-1 JANITOR, TOILET ROOMS	20/1	0.3	0.5			0.2	20/1	REC STAFF BATH	14
15	EW-1 HEAT JANITOR & STAFF TOILET	25/2	2.0		2.1		0.1	20/1	LIFT STATION HEAT TRACE	16
17	-	-	2.0			2.4	0.4	20/1	REC JANITOR	18
19	EW-1 HEAT PUBLIC TOILET & STORAGE	25/2	2.0	2.6			0.6	20/1	REC BREAKROOM & DESKTOP	20
21	-	-	2.0		2.2		0.2	20/1	ACCESS CONTROL POWER SUPPLY	22
23	CH-1 HEAT BREAKROOM	20/2	0.9			1.7	0.8	20/2	REC IT RACK UPS	24
25	-	-	0.9	1.7			0.8	-	-	26
27	LTG - BUS WAITING SHELTER	20/2	0.2		13.5		13.3	150/3	PANEL C	28
29	-	-	0.2			13.5	13.3	-	-	30
31	WH-2 HOT WATER STAFF TOILET	20/2	1.3	14.6			13.3	-	-	32
33	-	-	1.3		4.3		3.0	40/2	WH-1 HOT WATER HEATER	34
35	WH-2 HOT WATER BREAKROOM	20/2	1.3			4.3	3.0	-	-	36
37	-	-	1.3	1.3			0.0	30/3	SURGE PROTECTION DEVICE	38
39	WH-2 HOT WATER PUBLIC TOILET	20/2	1.3		1.3		0.0	-	-	40
41	-	-	1.3			1.3	0.0	-	-	42
43	SPARE	20/1	0.0	0.6			0.6	20/2	LIFT STATION POWER	44
45	SPARE	20/1	0.0		0.6		0.6	-	-	46
47	SPARE	20/1	0.0			0.0	0.0	20/1	SPARE	48
49	SPARE	20/1	0.0	0.0			0.0	20/1	SPARE	50
51	SPARE	20/1	0.0		0.0		0.0	20/1	SPARE	52
53	SPARE	20/1	0.0			0.0	0.0	20/1	SPARE	54
TOTAL CONNECTED LOAD = 74.6 KVA/ 207 AMPS				23.2	26.5	24.9				

EQUIPMENT	HP/KW	VOLTS/PH	STARTER SWITCH	DISCONNECT AT MOTOR	CIRCUIT INFO.	REMARKS
EW-1	2KW	208/1	INTEGRAL	NOTE 1	3/4" C, 2 NO. 8 & 1 NO. 12 GND	NOTES 1,2
CH-1	1.8KW	208/1	T-STAT	N/A	3/4" C, 2 NO. 12 & 1 NO. 12 GND	NOTE 2
EF-1	FRAC HP	120/1	N/A	DEDICATED REC	3/4" C, 2 NO. 12 & 1 NO. 12 GND	NOTES 2,3
WH-1	6KW	208/1	INTEGRAL	NOTE 1	3/4" C, 2 NO. 8 & 1 NO. 12 GND	NOTES 1,2
WH-2	2.5KW	208/1	INTEGRAL	MTR RATED SWITCH	3/4" C, 2 NO. 12 & 1 NO. 12 GND	NOTE 2

- NOTES (APPLICABLE TO MECHANICAL EQUIPMENT SCHEDULE):
- DEDICATED CIRCUIT BREAKER ON BRANCH CIRCUIT SHALL FUNCTION AS LOAD DISCONNECTING MEANS.
 - COORDINATE FINAL ELECTRICAL REQUIREMENTS WITH APPROVED MECHANICAL SUBMITTALS COORDINATE WORK WITH MECHANICAL CONTRACTOR PRIOR TO ORDERING AND PRIOR TO WORK.
 - FAN COMES WITH CORD AND PLUG DEDICATED RECEPTACLE AT UNIT SHALL FUNCTION AS DISCONNECTING MEANS.



REV	DATE	DESCRIPTION	BY



CAPITAL TRANSIT VALLEY TRANSFER STATION
CONTRACT NO. BE20-268
SINGLE LINE DIAGRAM AND ELECTRICAL SCHEDULES
MALL ROAD
JUNEAU, ALASKA

PROJECT 71014.01
DATE 4/01/2021
SHEET
E-203

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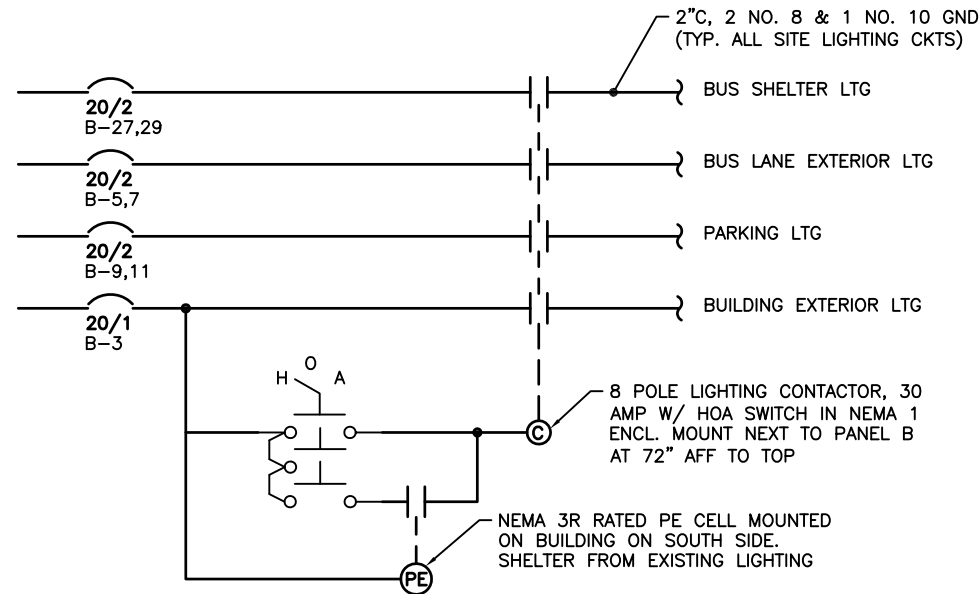
X:\129 dowl engineering\30 valley transit center\working drawings\LUMINAIRE SCHEDULE & LIGHTING CONTROL SCHEMATIC.dwg PLOT DATE 2021-02-22 12:10 USER: jodi

LUMINAIRE SCHEDULE

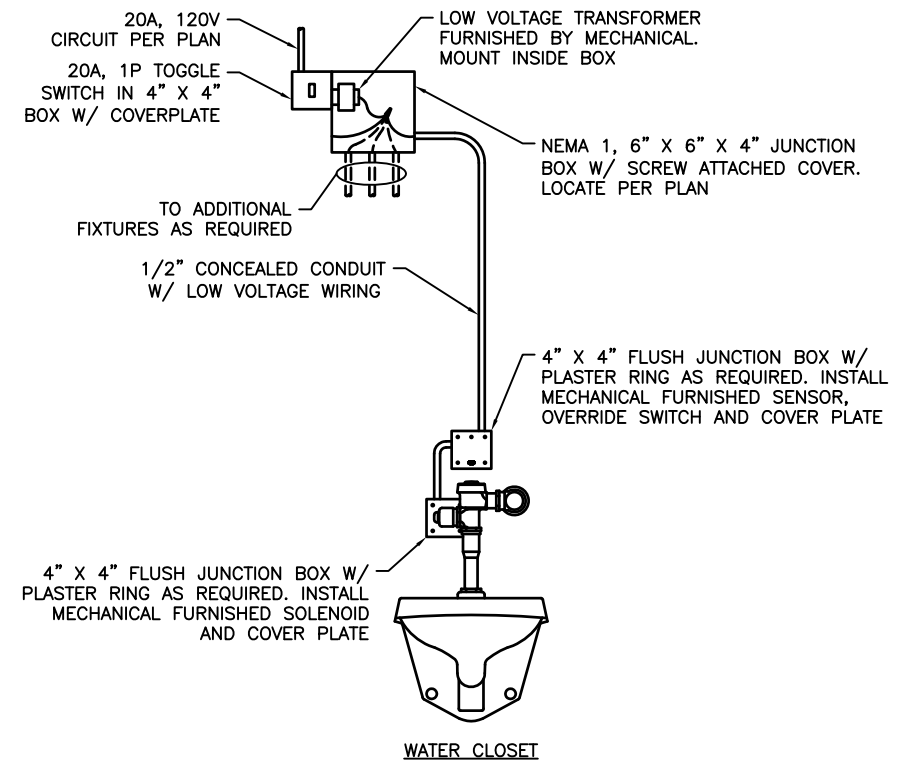
TYPE	DESCRIPTION	LAMPS	MANUFACTURER		SPARES	REMARKS	NOTES
			BRAND	PART NO.			
A	TYPE 4 POLE MOUNTED LUMINAIRE	LED, 4000K, 850ma 26,000 LUMENS, 70 CRI, MIN.	(OR)	LITHONIA LIGHTING DSX2-LED-P3-40K-T4M-MVOLT-SPA-SF-BS-DBLBXD	1	TYPE 4 DISTRIBUTION, 120-277V, FLAT BLACK, INTEGRAL FUSING, BIRD SPIKES, AND INTEGRAL 10KV (CAT C) SURGE PROTECTION COORDINATE MOUNTING ARM WITH POLE SELECTION	1, 2, 3, 4, 7
				VIPER VPL-80L-240-3K7-4-UNV-A-BL-F-BSP			
B	TYPE 3 POLE MOUNTED LUMINAIRE	LED, 4000K, 850ma 26,000 LUMENS, 70 CRI, MIN.	(OR)	LITHONIA LIGHTING DSX2-LED-P3-40K-T3M-MVOLT-SPA-SF-BS-DBLBXD	1	TYPE 3 DISTRIBUTION, 120-277V, FLAT BLACK, INTEGRAL FUSING, BIRD SPIKES, AND INTEGRAL 10KV (CAT C) SURGE PROTECTION COORDINATE MOUNTING ARM WITH POLE SELECTION	1, 2, 3, 4, 7
				VIPER VPL-80L-240-3K7-3-UNV-A-BL-F-BSP			
D	4' WALL MOUNT UP/DN LED	LED, 3500K, 4000 LUMENS	(OR)	LITHONIA WL4-40L-GZ10-LP840	1	120/277V. PROVIDE WITH EM BATTERY PACK 1,400 LUMENS WHERE SHOWN WITH EM.	1, 2, 5, 7
				HUBBELL CWM-4-40-LW-SR-FR-WA-ED-U-ELL14			
G	WALL MOUNT EXTERIOR WALL BACK, LED, QUARTER SPHERE	LED, 4000K, 2900 LUMENS, 30W	(OR)	LITHONIA WSQ-LED-P2-40K-SR4-MVOLT-SF-DBLXD	1	TYPE 5 DISTRIBUTION, BLACK, DIE CAST ALUMINUM HOUSING, POWDER COATED, RATED FOR WET LOCATIONS, WITH INTERNAL FUSING, LED SOURCE, MOUNT ABOVE DOOR	1, 2, 6, 7
				COLUMBIA QSP1-12L-40-3K7-4-U-BL-F			
S	24" LED BUS SHELTER CEILING LUMINAIRE, SURFACE MOUNTED	LED, 6500K, 280 LUMENS		SEE NOTE 1, SHEET E-105		PROVIDED BY BUS SHELTER SUPPLIER, CONTRACTOR TO INSTALL	

SHEET NOTES:

1. THE PART NUMBERS IN THE LUMINAIRE SCHEDULE MAY NOT BE COMPLETE. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE ALL PARTS AND ACCESSORIES NECESSARY TO COMPLY WITH THE FEATURES SHOWN IN THE LUMINAIRE SCHEDULE (INCLUDING THE MOUNTING) AS SHOWN ON THE OTHER PLAN SHEETS AND SPECIFICATIONS.
2. SUBSTITUTE FIXTURES OF EQUAL PERFORMANCE, PHYSICAL FORM, AESTHETIC, AND MOUNTING SHALL BE CONSIDERED FOR APPROVAL DURING THE SUBMITTAL PROCESS.
3. SEE SHEET E-302 FOR POLE DETAIL & MOUNTING INFO AND SHEET E-301 FOR LIGHT POLE SUMMARY INDICATING WHERE EACH FIXTURE TYPE AND FIXTURE QUANTITIES ARE TO BE PROVIDED PER POLE. SEE SITE PLAN SHEETS E-102 TO E-105 FOR POLE LOCATIONS.
4. PROVIDE POLE LIGHT FIXTURES PROTECTED UPSTREAM FUSING AND SPD UNITS INSTALLED IN POLE. SEE WIRING DIAGRAM ON SHEET E-301.
5. CENTER TYPE 'D' WALL FIXTURES ON THE WALL SEGMENT THEY ARE MOUNTED TO. HEIGHT OF FIXTURES PER ARCHITECTURAL ELEVATIONS. COORDINATE FINAL HEIGHT WITH ARCHITECT PRIOR TO ROUGH-IN WORK.
6. TYPE 'G' FIXTURE MOUNTING HEIGHT ANTICIPATED AT APPROXIMATELY 90" ABOVE FINISHED GRADE. CENTER WITHIN EXTERIOR PANELING SEGMENTS ABOVE DOOR. REFER TO ARCHITECTURAL ELEVATIONS FOR PRECISE DETAILS, COORDINATE FINAL HEIGHT WITH ARCHITECT PRIOR TO ROUGH-IN WORK.
7. LIGHT FIXTURES COMPLYING WITH 'USPOM' AND BUY AMERICA PROVISIONS ARE EXPECTED ON THIS PROJECT. SEE NOTES 9 AND 10 ON SHEET E-100 FOR MORE DETAILS.



① EXTERIOR LIGHTING SCHEMATIC

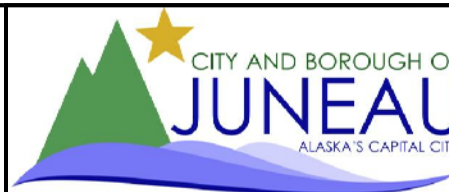
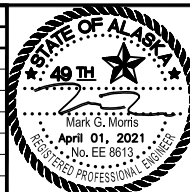


② TOILET FLUSH VALVE CONTROLS
NO SCALE

- NOTES (APPLICABLE TO DETAIL 2):
1. COORDINATE MOUNTING HEIGHTS AND ALL INSTALLATION REQUIREMENTS WITH VALVE INSTALLATION DRAWINGS AND WITH MECHANICAL CONTRACTOR.
 2. MAKE FINAL CONNECTIONS TO ALL ASSOCIATED DEVICES.



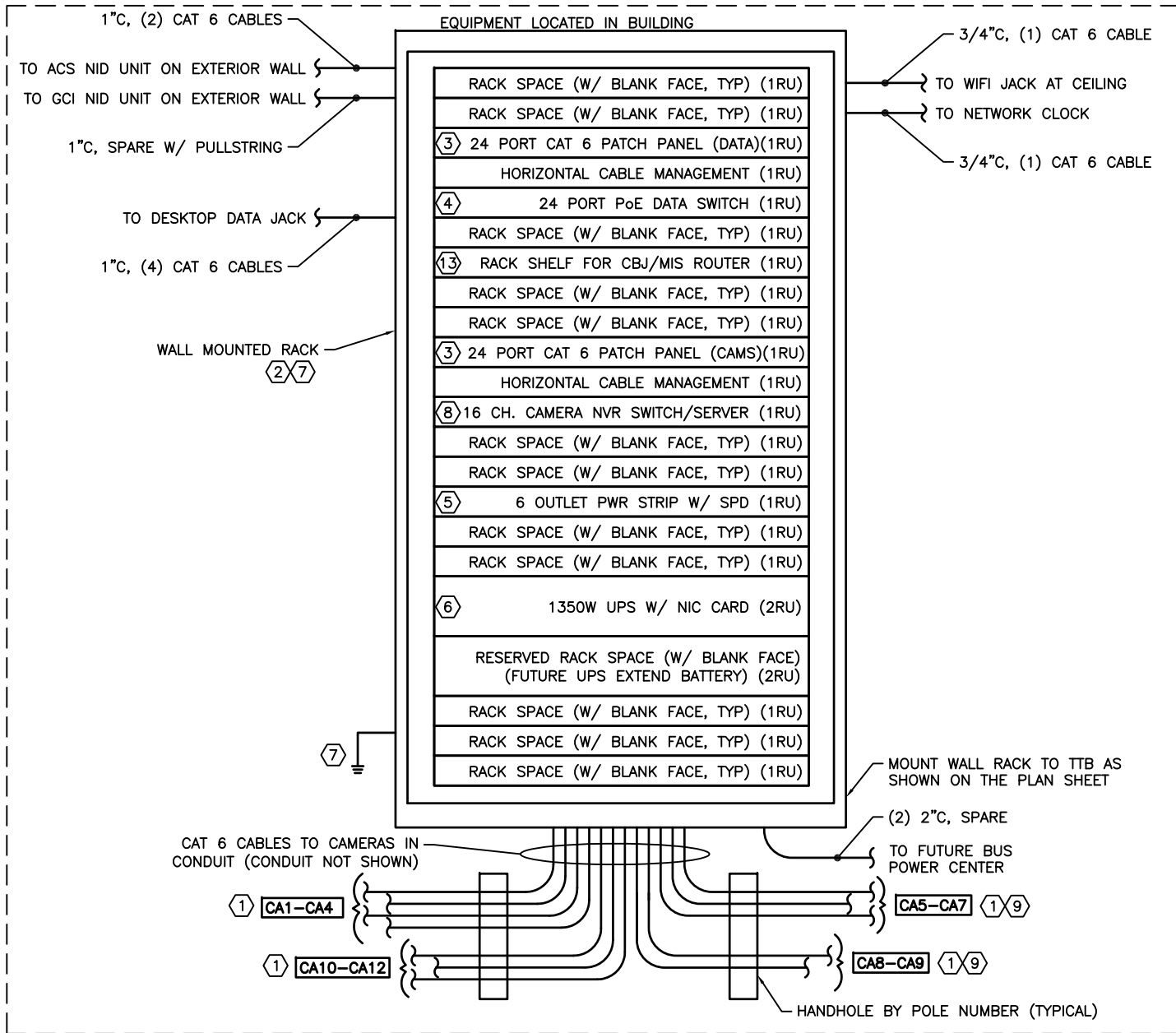
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REV	DATE	DESCRIPTION	BY



CAPITAL TRANSIT VALLEY TRANSFER STATION
CONTRACT NO. BE20-268
**LUMINAIRE SCHEDULE AND LIGHTING CONTROL
SCHEMATIC**
MALL ROAD
JUNEAU, ALASKA

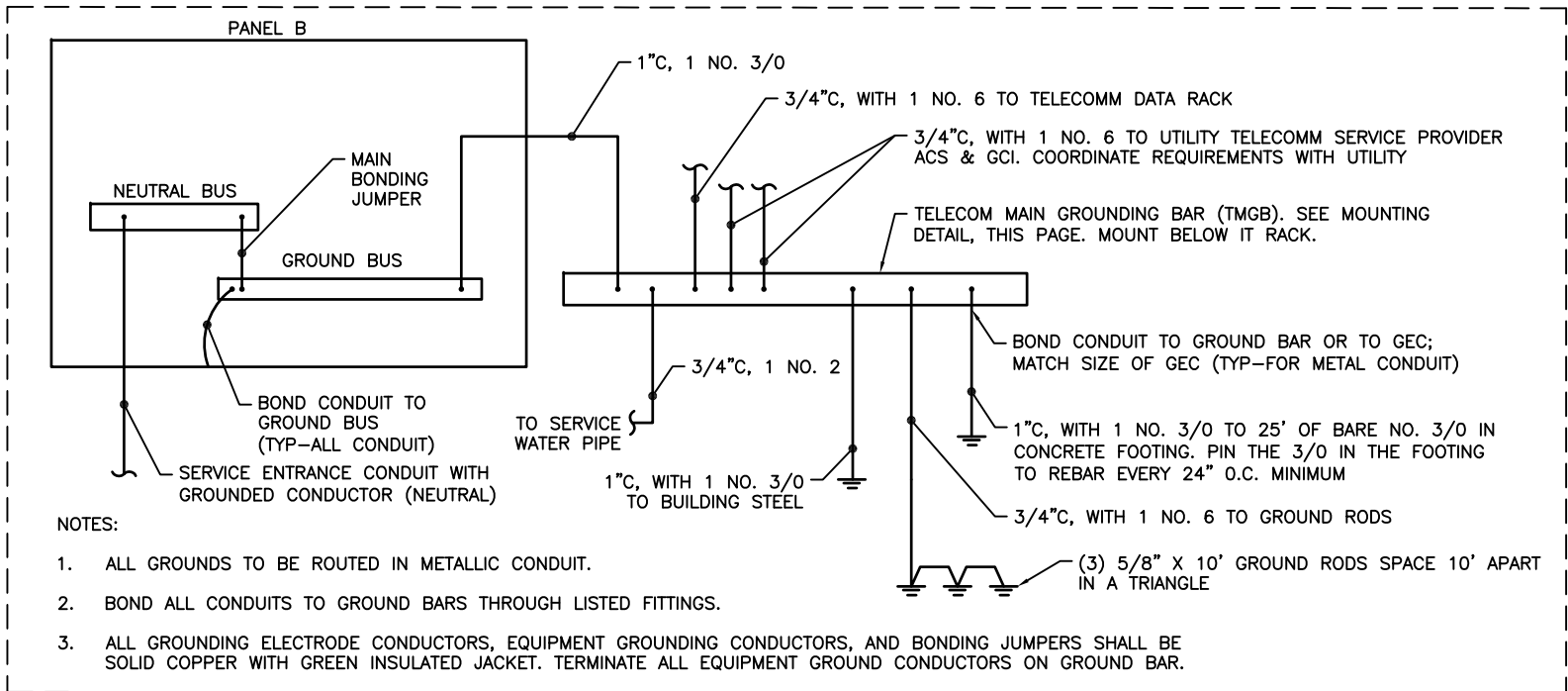
PROJECT	71014.01
DATE	4/01/2021
SHEET	E-204

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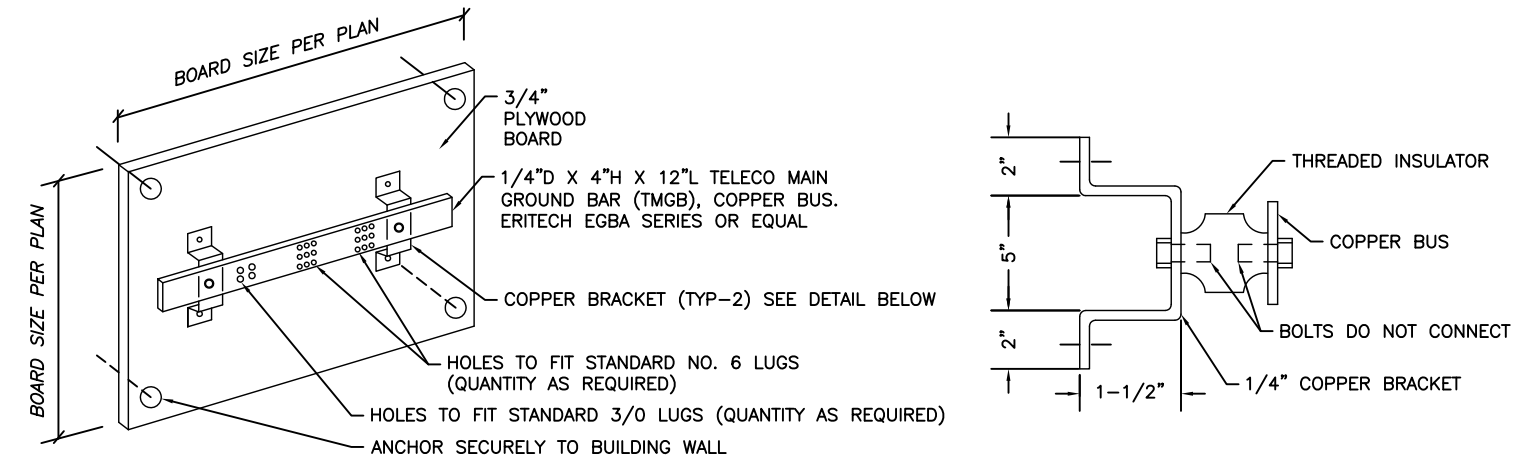


① VTC BUILDING CAMERA & DATA SCHEMATIC
NO SCALE

- DETAIL 1 NOTES:**
- ① OUTDOOR DAY/NIGHT FIXED PENDANT POLE MOUNT MINI-DOME. POE WITH 1080P, WDR, IR, IP66 AND IK10 RATED. AXIS P3245-LVE + T91B47 OR EQUAL. PROVIDE PENDANTS WITH BIRD SPIKES. CAMERA TYPE APPLIES FOR CAMERAS CA1-CA5, AND CA9-CA12.
 - ② TIA/EIA 19" USEABLE, 24" OVERALL WIDTH, 24" USEABLE DEPTH, SWING OUT WALL RACK. FULLY ENCLOSED ALL SIDES, TOP AND BOTTOM, WITH LOCKABLE DOOR, WITH VENTED FRONT DOOR, TOP DUST COVER, FAN AND FILTER KIT, AND RACK SHELF. INCLUDES MINIMUM OF 24 RACK UNITS OF SPACE (24RU). MIDDLE ATLANTIC DWR-24 SERIES OR EQUAL. PROVIDE A MINIMUM OF 42" WALL SPACE FOR FULL RACK SWING OUT.
 - ③ 24 PORT CAT 6 STANDARD DENSITY PATCH PANEL. COMPLETED WITH 18 PRE-POPULATED PORT POSITIONS WITH RJ45 JACKS AND 6 SPACES WITH BLANK FILLERS. FRONT FACING PANEL JACKS.
 - ④ 24 PORT POE+ SWITCH, FURNISHED AND INSTALLED BY OWNER. CONNECT ALL DATA DROPS TO SWITCH VIA PATCH PANEL, INCLUDING THE OUTPUT OF THE CAMERA RACK.
 - ⑤ COMMERCIAL GRADE 120V POWER STRIP WITH ON INDICATOR LIGHT, BUILT IN SURGE PROTECTION AND MINIMUM (6) OUTPUT RECEPTACLES. REAR FACING RECEPTACLES. TRIPP-LITE DRS-1215 OR ITW LINX GRM0600 OR EQUAL. POWER FROM UPS OUTPUT RECEPTACLE AND POWER ALL RACK LOADS FROM SURGE STRIP.
 - ⑥ 1500VA/1350W, 208V:120V RACK MOUNTED UPS WITH INPUT CORD AND PLUG. INCLUDES FRONT LDC INDICATOR SCREEN, MIN. (5) OUTPUT RECEPTACLES, NIC CARD WITH RJ45 JACK, AND APC SMT1500RM2UNC SMART-UPS OR EQUAL. POWER FROM DEDICATED WALL OUTLET AND POWER THE RACK SURGE STRIP FROM THE UPS. CONNECT NIC CARD TO RACK SWITCH VIA PATCH PANEL, COORDINATE WITH OWNER ON CONFIGURATION OF OUTPUT ALARMS AND NOTIFICATIONS TO THE EXTERNAL NETWORK.
 - ⑦ GROUND THE RACK TO THE TMGB IN THE ROOM AND GROUND ALL RACK EQUIPMENT TO THE RACK PER TIA/EIA STANDARDS. GROUND PER DETAIL 2, THIS SHEET.



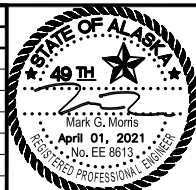
② SERVICE & TELECOMM GROUNDING DETAIL
NO SCALE



- ⑧ 16-CHANNEL NETWORK VIDEO RECORDER, RACK MOUNTED WITH REDUNDANT POWER SUPPLIES, AND SSD TYPE HARD DRIVE. PROVIDE WITH 8TB OF ONBOARD STORAGE AS PART OF THIS PROJECT. AXIS S2216 OR EQUAL.
- ⑨ OUTDOOR DAY/NIGHT FIXED PENDANT POLE MOUNT MINI-DOME. INCLUDES 4-SENSORS FOR MULTIPLE CAMERA FUNCTIONALITY. POE WITH 1080P, WDR, IR, IP66, AND IK10 RATED. AXIS P3717-PLC + T91B67 + T94N01D OR EQUAL. PROVIDE PENDANTS WITH BIRD SPIKES. CAMERA TYPE APPLIES FOR CAMERAS CA6-CAB.
10. ALL DATA CABLES ENTERING THE RACK SHALL BE IN CONDUIT CONNECTED AT RACK KNOCKOUTS. CONDUIT NOT SHOWN HERE.
11. CAMERA CABLES ARE ROUTED THROUGH SITE JUNCTION BOXES, NOT ALL OF WHICH ARE NOTED HERE. REVIEW SITE PLANS, BUILDING FLOOR PLANS, AND CAMERA DETAIL PLANS FOR MORE PRECISE ROUTING AND THE NUMBER AND LOCATION OF ENCLOSURES ALONG THE CAMERA CABLE PATHS.
12. CAMERAS SHALL BE LOCATED TO BEST ACHIEVE STATED VIEWING OBJECTIVES. ADJUST PHYSICAL POSITIONS AT MOUNTING LOCATIONS, ALONG WITH ADJUSTMENTS TO AIMING VIA SOFTWARE, ETC., IN COORDINATION WITH OWNER PRIOR TO SUBSTANTIAL COMPLETION.
- ⑬ PROVIDE SHELF FOR OWNER PROVIDED ROUTER.
14. PROVIDE 24" LONG, CAT 6 PATCH CORDS WITH RJ45 JACKS ON BOTH ENDS. PROVIDE QUANTITY OF CABLES NEEDED FOR ALL CAMERA DROPS AND DATA DROPS ON THE PROJECT.
15. CONTRACTOR SHALL PROVIDE PRINTED LABELS FOR ALL PATCH PANEL CAMERA AND DATA DROP POSITIONS. COORDINATE EXACT LABEL DESCRIPTIONS WITH ENGINEER PRIOR TO APPLYING.



REVISIONS			
REV	DATE	DESCRIPTION	BY



CAPITAL TRANSIT VALLEY TRANSFER STATION
CONTRACT NO. BE20-268
TELECOMM AND CAMERA DETAILS
MALL ROAD
JUNEAU, ALASKA

PROJECT	71014.01
DATE	4/01/2021
SHEET	E-205

Y:\129 dowl engineering\30 valley transit center\working drawings\LIGHT POLE & HANDHOLE SUMMARIES.dwg PLOT DATE 2021-03-31 11:51 SAVED DATE 2021-03-31 14:02 USER: jodi

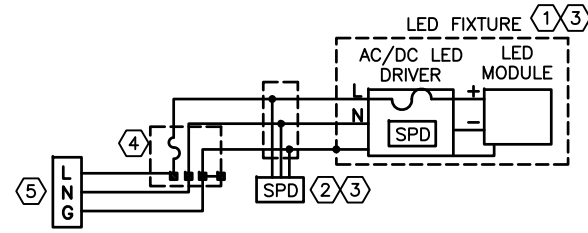
LIGHT POLE & CAMERA SUMMARY

POLE NO.	POLE HEIGHT	POLE CAMERA NO.	LUMINAIRE MOUNTING HEIGHT	CAMERA MOUNTING HEIGHT	STATION	OFFSET	POLE BASE ELEVATION *	LUMINAIRE TYPE	REMARKS	SHEET E-302 DETAILS
L1	30'	N/A	33'	N/A	STA "WE" 10+76.0	9.0' LT	31.55'	(1) B	EXTERNAL SHIELD BACK & RIGHT	1, 2, 3
L2	30'	CA9	33'	15'	STA "WE" 11+62.7	9.0' LT	30.68'	(1) B	EXTERNAL SHIELD BACK	1, 2, 3
L3	40'	N/A	43'	N/A	STA "WE" 12+71.5	9.0' LT	30.37'	(1) A	EXTERNAL SHIELD BACK	1, 2, 3
L4	40'	CA8	43'	15'	STA "WE" 13+74.5	9.0' LT	30.84'	(1) A	EXTERNAL SHIELD BACK & LEFT	1, 2, 3
L5	40'	CA7	43'	15'	STA "WE" 13+80.8	101.2' RT	31.07'	(1) A	EXTERNAL SHIELD BACK & RIGHT	1, 2, 3
L6	40'	CA6	43'	15'	STA "WE" 12+78.8	101.3' RT	30.31'	(1) A	EXTERNAL SHIELD BACK	1, 2, 3
L7	30'	CA5	33'	15'	STA "WE" 12+25.2	76.4' RT	30.16'	(1) A		1, 2, 3
L8	30'	CA3 & CA4	33'	15'	STA "SN" 11+33.9	60.5' RT	29.92'	(2) A		1, 2, 3
L9	30'	CA1 & CA2	33'	15'	STA "SN" 10+30.2	61.6' RT	30.72'	(2) A		1, 2, 3
L10	30'	N/A	33'	N/A	STA "SN" 10+32.6	15.0' LT	30.35'	(1) A	EXTERNAL SHIELD BACK & RIGHT	1, 2, 3
L11	30'	N/A	33'	N/A	STA "SN" 11+33.5	15.0' LT	30.74'	(1) A	EXTERNAL SHIELD BACK	1, 2, 3
L12	30'	N/A	33'	N/A	STA "WE" 11+32.3	72.5' RT	31.12'	(1) A	EXTERNAL SHIELD BACK	1, 2, 3
CAPL#1	12'	CA10	N/A	13'	STA "SN" 12+10.1	21.9' RT	29.78'	N/A	12' HIGH CAMERA ONLY POLE	3, 4, 5
CAPL#2	14'	CA11	N/A	15'	STA "SN" 11+85.1	21.9' RT	29.48'	N/A	14' HIGH CAMERA ONLY POLE	3, 4, 5
CAPL#3	12'	CA12	N/A	13'	STA "SN" 10+62.1	21.9' RT	30.50'	N/A	12' HIGH CAMERA ONLY POLE	3, 4, 5

PROVIDE CAMERA(S) AS SHOWN ON SITE PLANS, SHEET E-102 - E-105.
 PROVIDE POLES PER DETAILS ON SHEET E-302.
 PROVIDE LUMINAIRE PER LUMINAIRE SCHEDULE ON SHEET E-204.
 * TOP OF SIDEWALK OR GROUND ELEVATION AT CENTER OF POLE BASE.

SUMMARY NOTES:

- PROVIDE 6" MINIMUM HORIZONTAL CLEARANCE BETWEEN ALL POLE BASES AND OTHER BURIED PIPES, STORM DRAINS, ETC. CONSULT WITH ENGINEER BEFORE ADJUSTING THE LOCATION OF ANY LIGHT POLES.



1 LIGHT POLE FUSE HOLDER AND SPD WIRING DIAGRAM
NOT TO SCALE

NOTES:

- KEEP WIRES AS STRAIGHT AND SHORT AS POSSIBLE.
- ROUND WIRES RATHER THAN BENDING AT A HARD 90 DEGREE ANGLE.
- DO NOT CROSS OR OVERLAP PROTECTED WIRES (THOSE AFTER THE SPD, EITHER AC OR DC WIRES).
- ONLY ONE EXTERNAL SPD REQUIRED PER POLE, REGARDLESS OF THE NUMBER OF FIXTURE HEADS ON THE POLE.
- SEE DETAIL 1, SHEET E-302 FOR POLE ELEVATION AND MORE ON SPD AND FUSE HOLDER MOUNTING.
- SEE DETAIL 2, THIS SHEET, FOR SPD INSTALLATION AT TOP OF POLE.

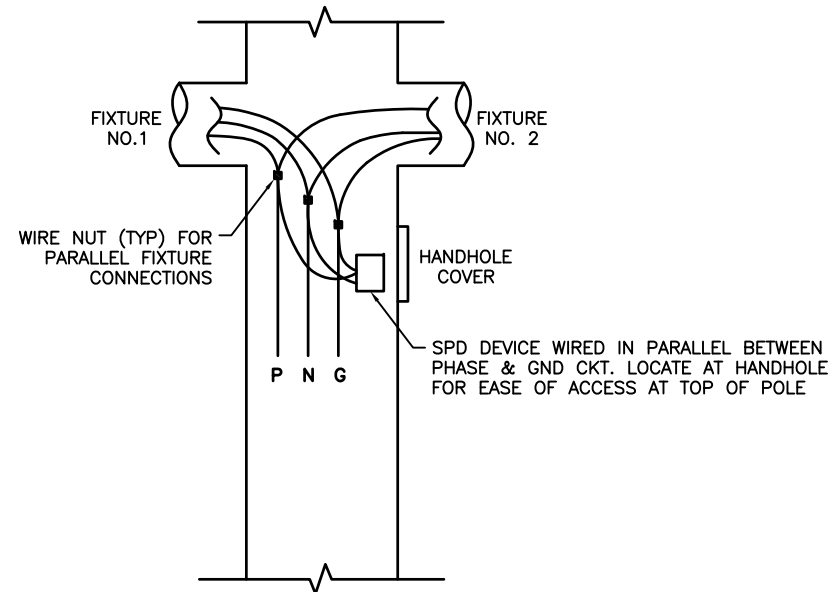
KEYNOTES:

- OVERALL LED FIXTURE WITH FUSED DRIVER FURNISHED WITH INTEGRAL AND INTERNAL SPD.
- CIRCUIT EXTERNAL LED FIXTURE SPD AS SHOWN. MAKE PARALLEL CONNECTION INTO CIRCUIT. SEE ENLARGED DETAIL, THIS SHEET. SIZE MATCHED TO CIRCUIT CONDUCTORS SIZES. SPD SHALL BE LITTLEFUSE LSP10 OR EATON MTL LS10N OR EQUAL. SPD TO INCLUDE OPTIONAL END OF LIFE INDICATOR LED.
- CO-LOCATE EXTERNAL SPD WITHIN LIGHT FIXTURE HOUSING IF ACCEPTABLE TO FIXTURE MANUFACTURER. OTHERWISE INSTALL WITHIN POLE IMMEDIATELY ADJACENT TO FIXTURE MOUNTING LOCATION.
- FINGER SAFE FUSE HOLDER AT BASE OF LIGHT POLE ACCESSIBLE FROM BASE HANDHOLE. SEC 1791-SF OR EATON HEZ-AA. PROVIDE WITH CLASS CC FAST ACTING FUSE SIZED PER SELECTED FIXTURE LOAD REQUIREMENT.
- SOURCE PANEL PER PLANS.

HANDHOLE SUMMARY

NO.	STATION	OFFSET	ELEV. *	TYPE
HH1	STA "WE" 10+80.4	8.2' LT	31.51'	(1)
HH2	STA "WE" 11+67.0	8.2' LT	30.67'	(1)
HH3	STA "WE" 12+75.9	8.2' LT	30.40'	(1)
HH4	STA "WE" 13+70.2	8.3' LT	30.83'	(1)
HH5	STA "WE" 13+76.4	100.4' RT	31.06'	(1)
HH6	STA "WE" 12+83.2	100.5' RT	30.39'	(1)
HH7	STA "WE" 12+24.6	80.7' RT	30.11'	(1)
HH8	STA "SN" 11+38.2	57.8' RT	30.14'	(1)
HH9	STA "SN" 10+37.6	57.8' RT	30.79'	(1)
HH10	STA "SN" 10+37.0	17.0' LT	30.42'	(1)
HH11	STA "SN" 11+37.9	17.0' LT	30.96'	(1)
HH12	STA "WE" 11+30.4	68.1' RT	30.92'	(1)
HH13	STA "SN" 12+15.5	16.0' RT	29.99'	(1)
HH14	STA "SN" 11+45.7	16.0' RT	29.79'	(1)
HH15	STA "SN" 10+75.2	16.0' RT	30.60'	(1)
CHH1	STA "SN" 10+37.6	59.7' RT	30.78'	(1)
CHH2	STA "SN" 11+38.2	59.7' RT	30.14'	(1)
CHH3	STA "WE" 12+22.2	80.7' RT	30.14'	(1)
CHH4	STA "WE" 12+83.2	102.3' RT	30.25'	(1)
CHH5	STA "WE" 13+76.4	102.9' RT	30.99'	(1)
CHH6	STA "WE" 13+70.2	10.0' LT	30.81'	(1)
CHH7	STA "WE" 11+67.0	9.9' LT	30.64'	(1)
CHH8	STA "SN" 12+14.4	19.9' RT	29.86'	(1)
CHH9	STA "SN" 11+80.7	19.9' RT	29.46'	(1)
CHH10	STA "SN" 10+66.5	19.9' RT	30.51'	(1)

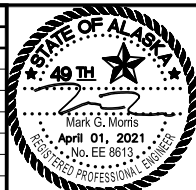
(1) PROVIDE HANDHOLES PER DETAILS ON SHEET E-302.
 * TOP OF SIDEWALK OR GROUND ELEVATION AT CENTER OF POLE BASE.



2 SPD ENLARGED DETAIL
NOT TO SCALE

MORRIS ENGINEERING GROUP INC
 2375 Jordan Avenue #7, Juneau, AK 99801
 Phone: 907-789-3350, License: AECL1010

REVISIONS			
REV	DATE	DESCRIPTION	BY



DOWL
 AECL848
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 5368 Commercial Boulevard
 Juneau, Alaska 99801
 907-780-3533

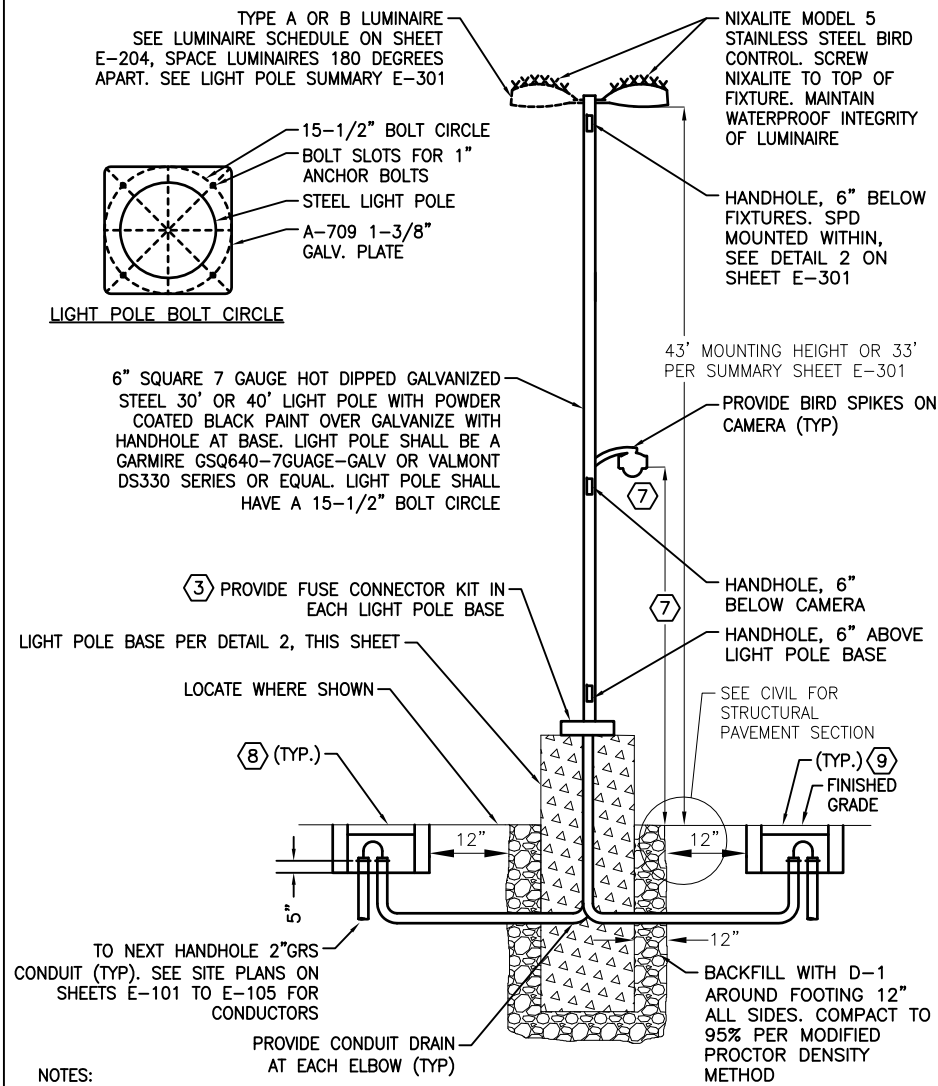
CITY AND BOROUGH OF JUNEAU
 ALASKA'S CAPITAL CITY

CAPITAL TRANSIT VALLEY TRANSFER STATION
 CONTRACT NO. BE20-268
 LIGHT POLE AND HANDHOLE SUMMARIES

MALL ROAD
 JUNEAU, ALASKA

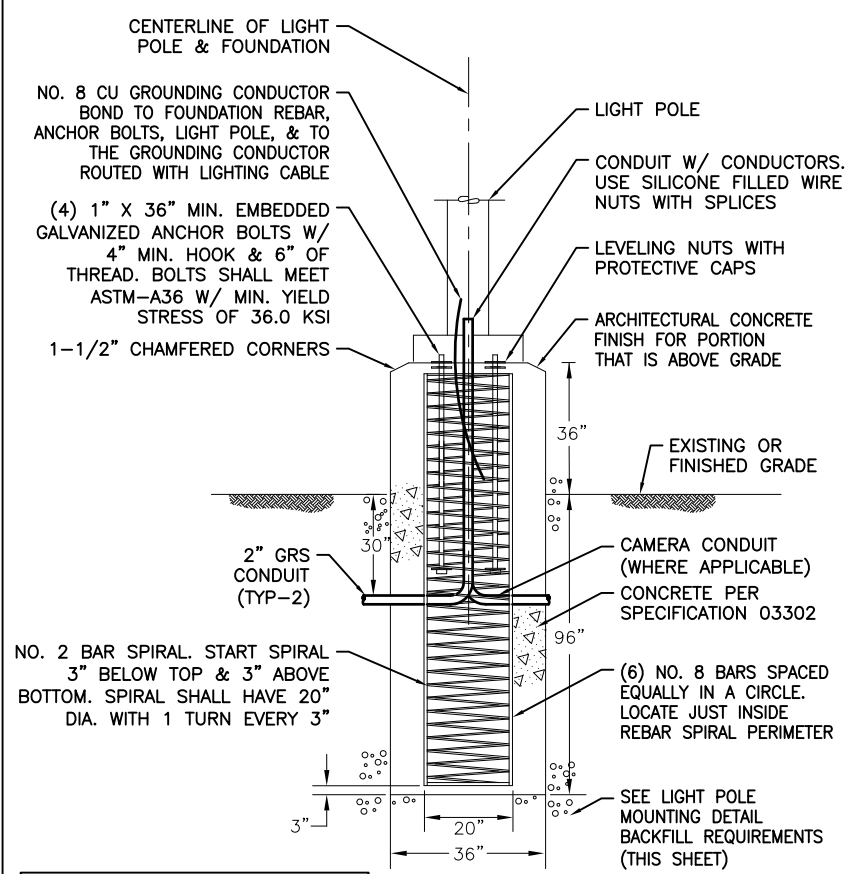
PROJECT 71014.01
 DATE 4/01/2021
 SHEET
E-301

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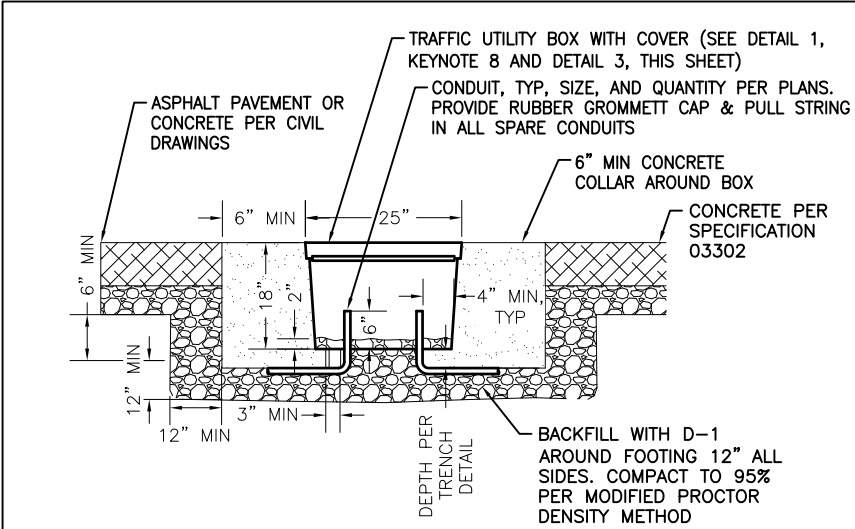
- NOTES:
- ALL SPLICES SHALL BE IN BASE OF LIGHT POLE. LOOP FEED POWER CONDUCTORS IF REQUIRED. SEE SITE PLAN ON SHEETS E-101 TO E-105.
 - PROVIDE GROUNDING BUSHINGS ON CONDUIT.
 - PROVIDE FUSE KITS IN EACH LIGHT POLE BASE ACCESSIBLE FROM BOTTOM HANDHOLE AND SPD AT TOP OF LIGHT POLE. SEE DETAIL 1, SHEET E-301 FOR WIRING DIAGRAM.
 - SIZE LIGHT POLE WITH LUMINAIRES FOR 120 MPH SUSTAINED WINDS WITH GUSTS TO 150 MPH. LIGHT POLE DIMENSIONS SHOWN ARE A MINIMUM. PROVIDE CALCULATIONS SHOWING COMPLIANCE SEALED BY CIVIL ENGINEER REGISTERED IN ALASKA.
 - LOCATE HANDHOLE AND POLE BASES PER STATION AND OFFSET SUMMARIES ON SHEET E-301.
 - LOCATE TOP OF BASE 3' ABOVE FINISHED GRADE PER LIGHT POLE BASE DETAIL 2, THIS SHEET.
 - PROVIDE POLE MOUNTED CAMERAS WHERE SHOWN ON THE PLANS, MULTIPLE WHERE SHOWN ON SITE PLAN (ONLY ONE DEPICTED HERE). CAMERA HEIGHTS PER SUMMARY TABLE ON SHEET E-301.
 - TIER 22, OPEN BOTTOM, 13" X 22" X 18" NOMINAL BOX WITH HEX BOLT LID, 'LIGHTING' ON COVER. HUBBELL QUAZITE PG1324BA18 WITH PG1324HH029 COVER OR EQUAL. SEE DETAIL 3, THIS SHEET.
 - AN ADDITIONAL HANDHOLE REQUIRED AT LIGHT POLES THAT HAVE CAMERAS. SHOWN HERE ON OPPOSITE SIDE OF POLE FOR CLARITY ONLY. BOX TO MATCH REQUIREMENTS PER KEYNOTE 8, THIS DETAIL WITH 'CCTV' ON COVER.

① LIGHT POLE MOUNTING DETAIL
NO SCALE



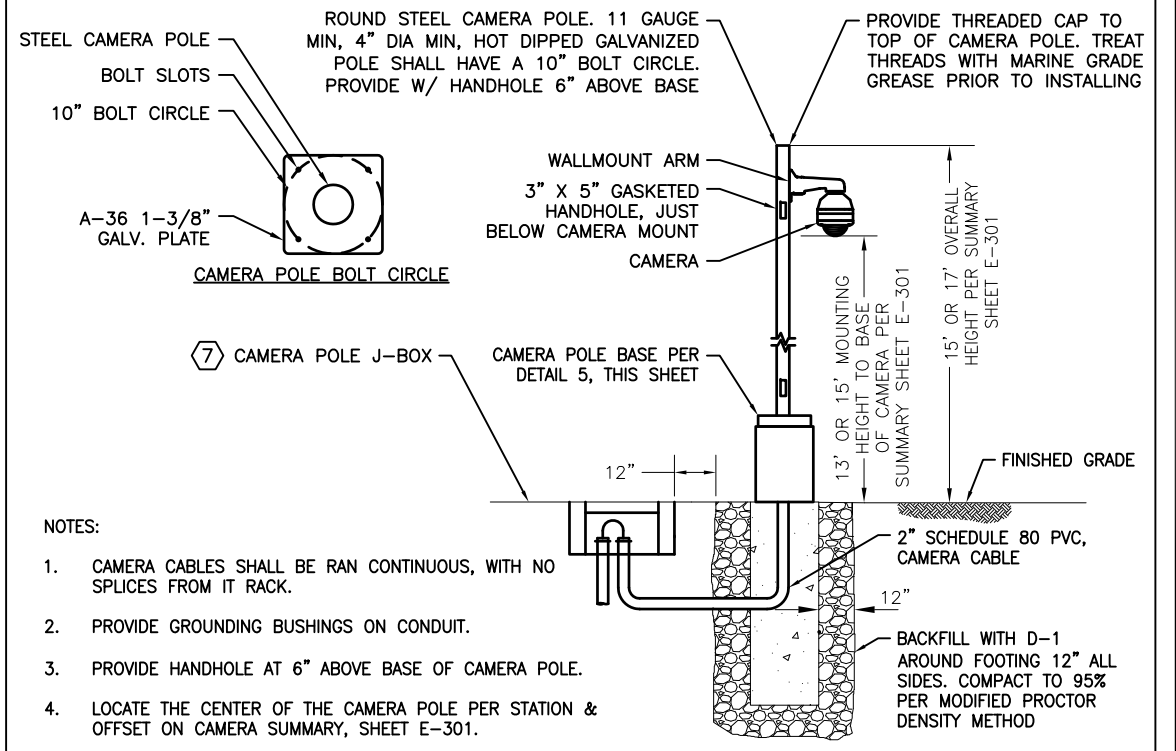
NOTE: LOCATE HANDHOLE AND POLE BASES PER STATION AND OFFSET SUMMARIES ON SHEET E-301.

② LIGHT POLE BASE DETAIL
NO SCALE



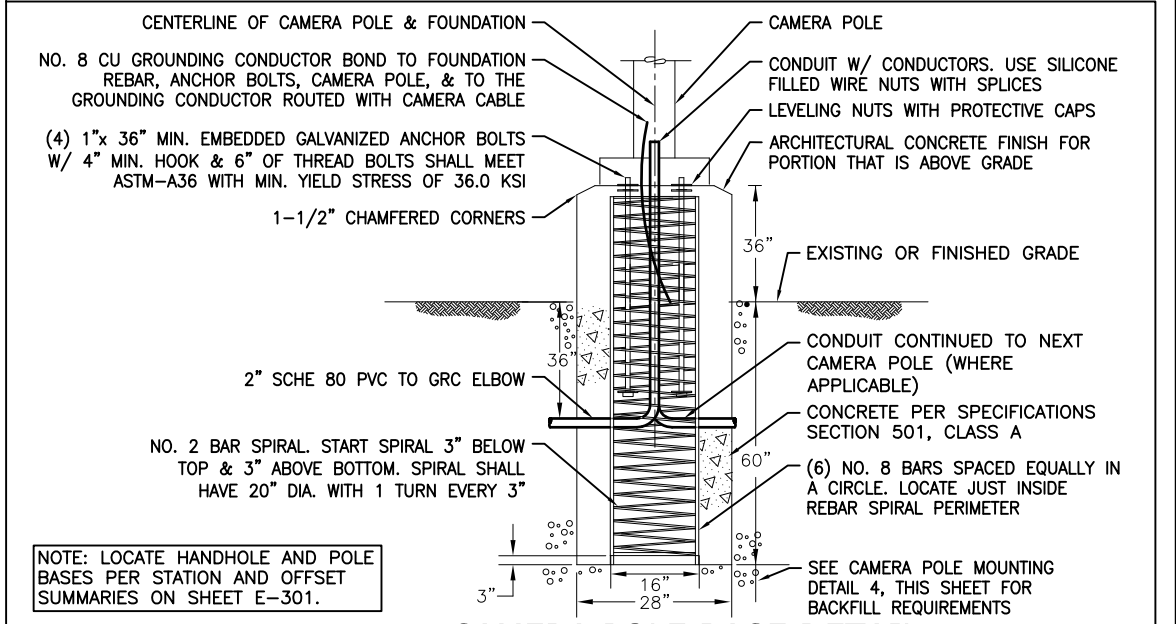
NOTE: THIS DETAIL APPLIES TO ALL POWER, LIGHTING, LIFT STATION, BUS POWER, AND CAMERA HANDHOLES REQUIRED ON THE PROJECT.

③ HANDHOLE DETAIL
NO SCALE



- NOTES:
- CAMERA CABLES SHALL BE RAN CONTINUOUS, WITH NO SPLICES FROM IT RACK.
 - PROVIDE GROUNDING BUSHINGS ON CONDUIT.
 - PROVIDE HANDHOLE AT 6" ABOVE BASE OF CAMERA POLE.
 - LOCATE THE CENTER OF THE CAMERA POLE PER STATION & OFFSET ON CAMERA SUMMARY, SHEET E-301.
 - PROTECT ANCHOR BOLTS FROM PHYSICAL DAMAGE DURING CONSTRUCTION.
 - LOCATE HANDHOLE AND POLE BASES PER STATION AND OFFSET SUMMARIES ON SHEET E-301.
 - TIER 22, OPEN BOTTOM, 13" X 22" X 18" NOMINAL BOX WITH HEX BOLT LID, 'CCTV' ON COVER. HUBBELL QUAZITE PG1324BA18 WITH PG1324HH029 COVER OR EQUAL. SEE DETAIL 3, THIS SHEET.

④ CAMERA POLE MOUNTING DETAIL
NO SCALE

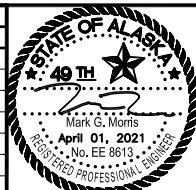


NOTE: LOCATE HANDHOLE AND POLE BASES PER STATION AND OFFSET SUMMARIES ON SHEET E-301.

⑤ CAMERA POLE BASE DETAIL
NO SCALE



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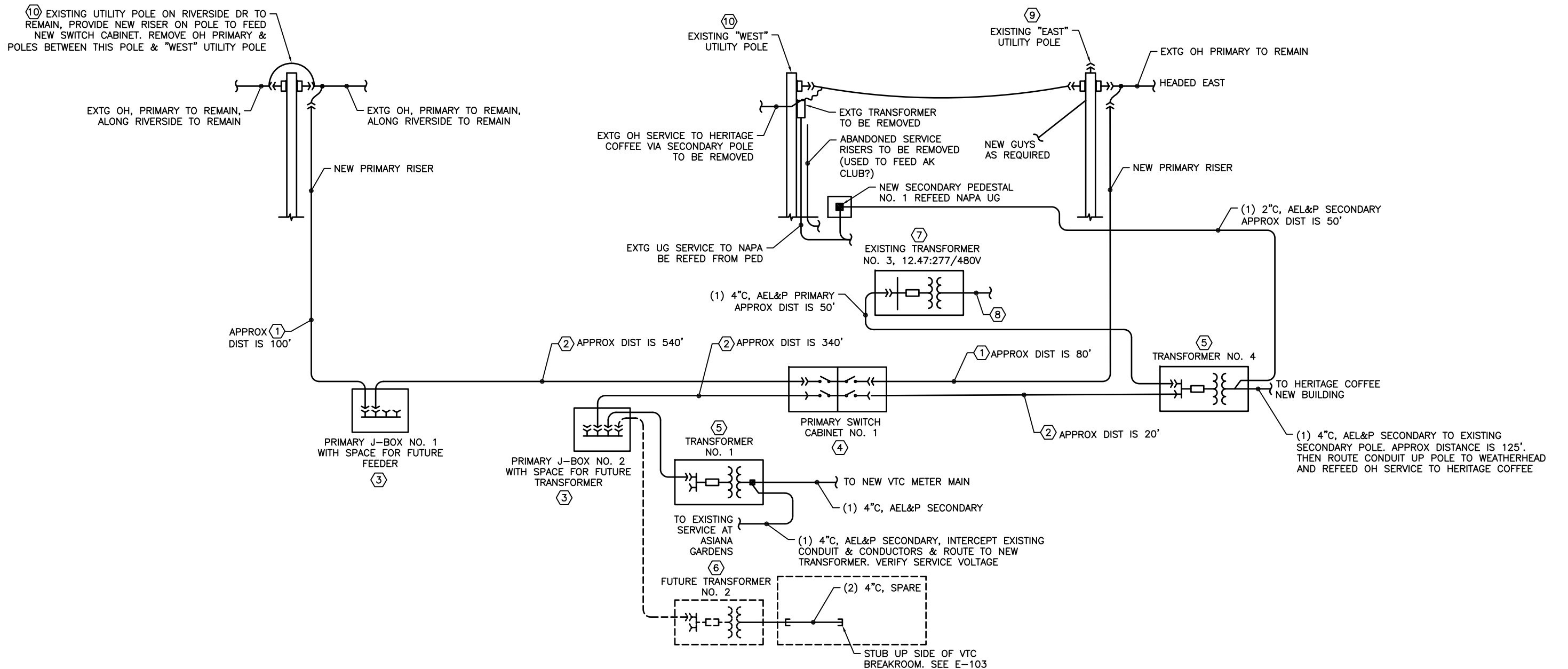


CAPITAL TRANSIT VALLEY TRANSFER STATION
CONTRACT NO. BE20-268
POLE AND HANDHOLE DETAILS

MALL ROAD
JUNEAU, ALASKA

PROJECT	71014.01
DATE	4/01/2021
SHEET	E-302

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1 AEL&P SINGLE LINE DIAGRAM

SHEET NOTES:

- 1 (1) 6" C, AEL&P PRIMARY. MOUNT ON STANDOFFS
(1) 6" C, AEL&P SPARE. STUB UP SIDE OF POLE 6'.
- 2 (1) 6" C, AEL&P PRIMARY UNDERGROUND. SEE TRENCH DETAIL
(1) 6" C, AEL&P SPARE
- 3 PRIMARY PEDESTAL, 3φ, 4 POSITION MINIMUM. DESIGN PER AEL&P.
- 4 PRIMARY SWITCH CABINET. DESIGN PER AEL&P.
- 5 112.5KVA 12.47 KVA:120/208V Y PAD MOUNT TRANSFORMER WITH PRIMARY LOOP FEED. DESIGN BY AEL&P.
- 6 1.5MW, 12.47 KVA:277/480V Y PAD MOUNT TRANSFORMER FOR FUTURE ELECTRIC BUS SERVICE. PROVIDE TRANSFORMER PAD NOW.

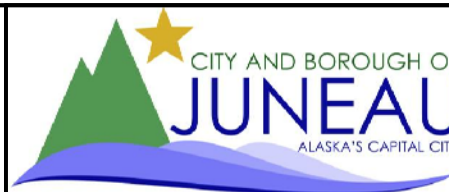
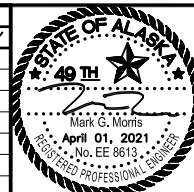
- 7 EXISTING PAD MOUNT TRANSFORMER FEEDS ALASKA CLUB. IT IS CURRENTLY FED BY RISER UP "EAST" EXISTING UTILITY POLE ON DIKE. REFEED FROM NEW TRANSFORMER AS SHOWN.
- 8 EXISTING UNDERGROUND SERVICE TO ALASKA CLUB TO REMAIN.
- 9 EXISTING "EAST" UTILITY POLE ON TOP OF DIKE. REMOVE FEED TO EXISTING TRANSFORMER THAT FEEDS ALASKA CLUB. PROVIDE NEW PRIMARY RISER TO CONNECT OVERHEAD PRIMARY TO UNDERGROUND PRIMARY AT SWITCH CABINET. PROVIDE NEW GUYS TO THE WEST.
- 10 EXISTING "WEST" UTILITY POLE. THIS POLE IS TO BE REMOVED. REMOVE OVERHEAD LINE FROM THIS POLE TO POLE ON RIVERSIDE AND POLES IN BETWEEN. REFEED UNDERGROUND SERVICE TO NAPA FROM NEW SECONDARY PEDESTAL. REFEED HERITAGE COFFEE OVERHEAD SERVICE FROM NEW TRANSFORMER.

- 11. BUILD NEW UNDERGROUND FACILITIES AND CUT OVER ALL SERVICES AND PRIMARY PRIOR TO DEMOLISHING EXISTING OVERHEAD. ALL CUT OVERS TO OCCUR OUTSIDE OF BUSINESS HOURS OF AFFECTED CUSTOMERS. COORDINATE ALL OUTAGES WITH CUSTOMERS AND CBJ.
- 12. ALL CONDUIT SHALL BE SCHEDULE 80 PVC. USE RIGID STEEL ELBOWS. ALL RISERS SHALL BE RIGID STEEL.
- 13. INSTALL SECONDARY PEDESTAL TO REFEED NAPA UNDERGROUND SERVICE.

NO WORK ON THIS SHEET IS NOT-IN-CONTRACT (NIC).



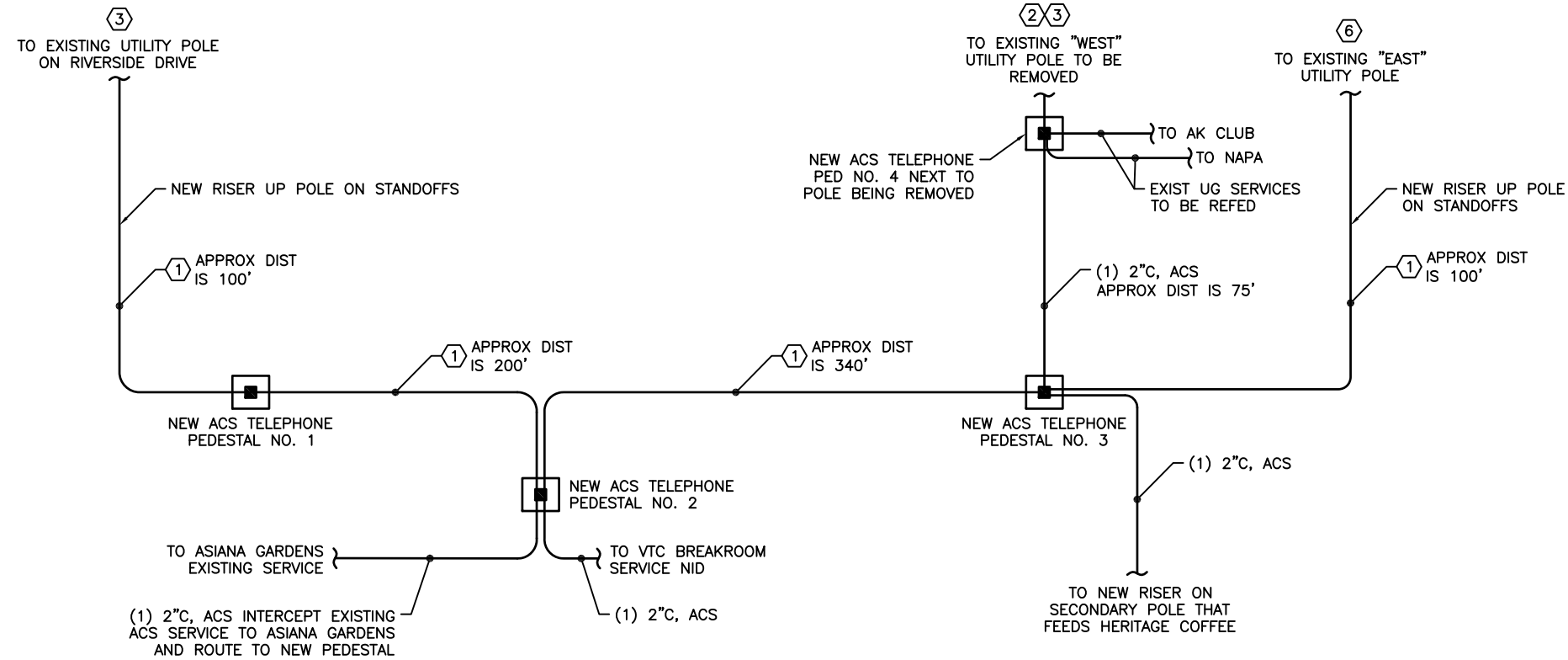
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REV	DATE	DESCRIPTION	BY



CAPITAL TRANSIT VALLEY TRANSFER STATION
CONTRACT NO. BE20-268
AEL&P SINGLE LINE DIAGRAM
NOT IN CONTRACT
MALL ROAD
JUNEAU, ALASKA

PROJECT	71014.01
DATE	4/01/2021
SHEET	E-401

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SHEET NOTES:

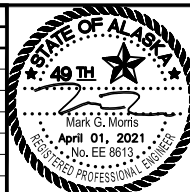
- ① 4" C, ACS TELEPHONE CABLES
4" C, ACS SPARE
- ② THE OVERHEAD SERVICES TO HERITAGE COFFEE IS TO BE REFEED FROM PEDESTAL NO. 3. THE UNDERGROUND SERVICE TO NAPA AUTO PARTS IS TO BE REFEED FROM PEDESTAL NO. 4.
- ③ REMOVE THE OVERHEAD CABLE BETWEEN THE WEST POLE AND THE POLE ON RIVERSIDE DRIVE. REPLACE IT WITH AN UNDERGROUND CABLE AS SHOWN. REFEED THE UNDERGROUND SERVICE TO ASIANA GARDENS AS SHOWN.
- 4. ALL CONDUIT SHALL BE SCHEDULE 80 PVC. USE RIGID STEEL ELBOWS. USE SCHEDULE 80 PVC OR RIGID STEEL RISERS UP POLE.
- 5. BUILD UNDERGROUND FACILITIES AND CUT OVER ALL SERVICES BEFORE DEMOLISHING EXISTING OVERHEAD. ALL CUTOVERS SHALL BE DONE AFTER BUSINESS HOURS OF CUSTOMERS. COORDINATE ALL OUTAGES WITH CUSTOMERS AND THE CBJ.
- ⑥ PROVIDE RISER UP EAST POLE.

① ACS TELEPHONE RISER DIAGRAM

ALL WORK ON THIS SHEET IS NOT-IN-CONTRACT (NIC).



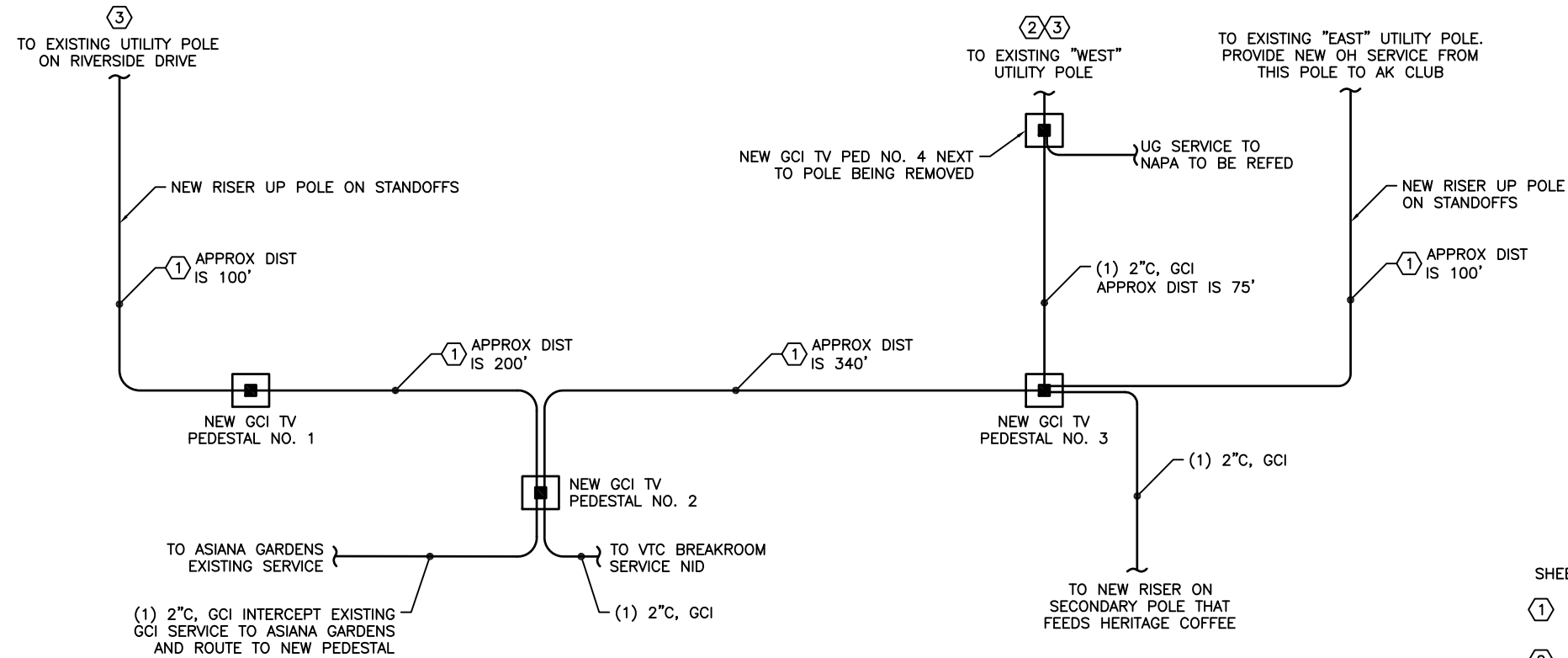
REVISIONS			
REV	DATE	DESCRIPTION	BY



CAPITAL TRANSIT VALLEY TRANSFER STATION
CONTRACT NO. BE20-268
ACS TELEPHONE RISER DIAGRAM
NOT IN CONTRACT
MALL ROAD
JUNEAU, ALASKA

PROJECT	71014.01
DATE	4/01/2021
SHEET	E-402

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SHEET NOTES:

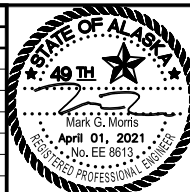
- ① 4\"C, GCI TV CABLES
4\"C, GCI SPARE
- ② THE OVERHEAD SERVICE TO ALASKA CLUB TO BE REFEED FROM EAST UTILITY POLE. THE OVERHEAD SERVICE TO HERITAGE COFFEE TO BE REFEED FROM PEDESTAL NO. 3. THE UNDERGROUND SERVICE TO NAPA AUTO PARTS IS TO BE REFEED FROM PEDESTAL NO. 4.
- ③ REMOVE THE OVERHEAD CABLE BETWEEN THE WEST POLE AND THE POLE ON RIVERSIDE DRIVE. REPLACE IT WITH AN UNDERGROUND CABLE AS SHOWN. REFEED THE UNDERGROUND SERVICE TO ASIANA GARDENS AS SHOWN.
- 4. ALL CONDUIT SHALL BE SCHEDULE 80 PVC EXCEPT ALL ROAD CROSSINGS SHALL BE SCHEDULE 80 PVC. PROVIDE SCHEDULE 80 PVC WITHIN 10' OF PEDESTALS, BUILDINGS, OR OTHER STRUCTURES. USE RIGID STEEL ELBOWS. USE SCHEDULE 80 PVC OR RIGID STEEL RISERS UP POLE.
- 5. BUILD UNDERGROUND FACILITIES AND CUT OVER ALL SERVICES BEFORE DEMOLISHING EXISTING OVERHEAD. ALL CUTOVERS SHALL BE DONE AFTER BUSINESS HOURS OF CUSTOMERS. COORDINATE ALL OUTAGES WITH CUSTOMERS AND THE CBJ.

ALL WORK ON THIS SHEET IS NOT-IN-CONTRACT (NIC).

① **GCI TV RISER DIAGRAM**



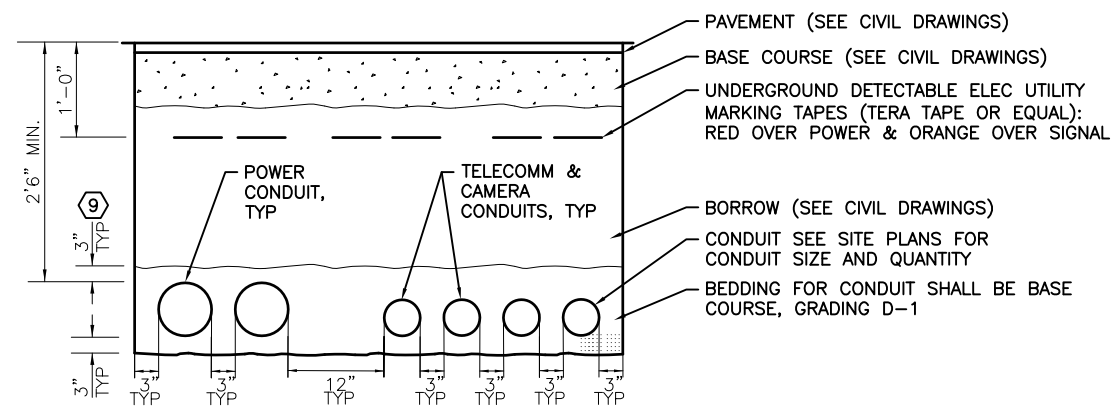
REVISIONS			
REV	DATE	DESCRIPTION	BY



CAPITAL TRANSIT VALLEY TRANSFER STATION
CONTRACT NO. BE20-268
GCI TV RISER DIAGRAM
NOT IN CONTRACT
MALL ROAD
JUNEAU, ALASKA

PROJECT	71014.01
DATE	4/01/2021
SHEET	E-403

Y:\129 dowl engineering\30 valley transit center\working drawings\E-404 UTILITY UNDERGROUNDING TYPICAL SECTION - ELECTRICAL.dwg PLOT DATE 2021-4-1 11:51 SAVED DATE 2021-04-01 10:14 USER: jodi



NOTES:

- ALL DIMENSIONS ARE MINIMUM.
 - SEE CIVIL DRAWINGS FOR TYPICAL SECTIONS UNDER PAVED AREAS. PROVIDE BACKFILL (MATERIAL, COMPACTION, ETC.) PER THE CIVIL DRAWINGS. WHERE NOT UNDER PAVEMENT, PROVIDE D1 IN THE TOP 12" WITH SELECT BORROW BELOW.
 - THE LOCATION OF ALL EXISTING PIPING, CONDUIT, ETC MAY NOT BE WHERE SHOWN AND MAY NOT BE SHOWN. ALL LOCATIONS THAT ARE SHOWN ARE APPROXIMATE AND SHOULD BE FIELD VERIFIED. OBTAIN UTILITY LOCATES PRIOR TO DIGGING. DIG WITH CAUTION. AVOID WATER, SEWER, DRAINAGE PIPES AND OTHER CONFLICTS.
 - MAINTAIN 12 INCHES MINIMUM SEPARATION (ALL DIRECTIONS) BETWEEN POWER AND OTHER CONDUITS, PIPES, ETC.
 - PROVIDE 36" MINIMUM BURIAL DEPTH FOR ALL CONDUITS WITHIN THE ROADWAY PRISMS.
 - SAWCUT AND REPLACE ASPHALT, CONCRETE, Z E CONCRETE CURB, GUTTER, SIDEWALKS, ETC. AS NECESSARY TO INSTALL CONDUIT AND OTHER ELECTRICAL ITEMS. SAWCUT ASPHALT BACK 18" ON EACH SIDE OF EDGE OF TRENCH OR EXCAVATION AREA (ALL SIDES). THERE SHALL BE 18" OF UNDISTURBED SOIL BETWEEN EDGE OF SAWCUT AND EXCAVATION LIMITS. ALL TRENCHES SHALL BE 18" WIDE MINIMUM. COMPACT BACKFILL TO 95%. COMPACT D-1 TO 100% WHERE COVERED WITH PAVEMENT. RE-PAVE SAWCUT AREAS PER PAVING SPECIFICATIONS.
 - POWER UTILITY CONDUITS SHALL BE BURIED AT A MINIMUM OF 3'-6". BURY CONDUITS DEEPER WHERE REQUIRED TO AVOID OTHER PIPES AND STRUCTURES.
 - MODIFY CONDUIT BURIAL DEPTH WHERE SHOWN ON DRAWINGS AND AS REQUIRED TO AVOID ALL OBSTACLES. ROUTE BELOW OBSTACLES.
- 9 PROVIDE 6" BEDDING OVER UTILITY CONDUITS ON RIVERSIDE DRIVE CROSSING.

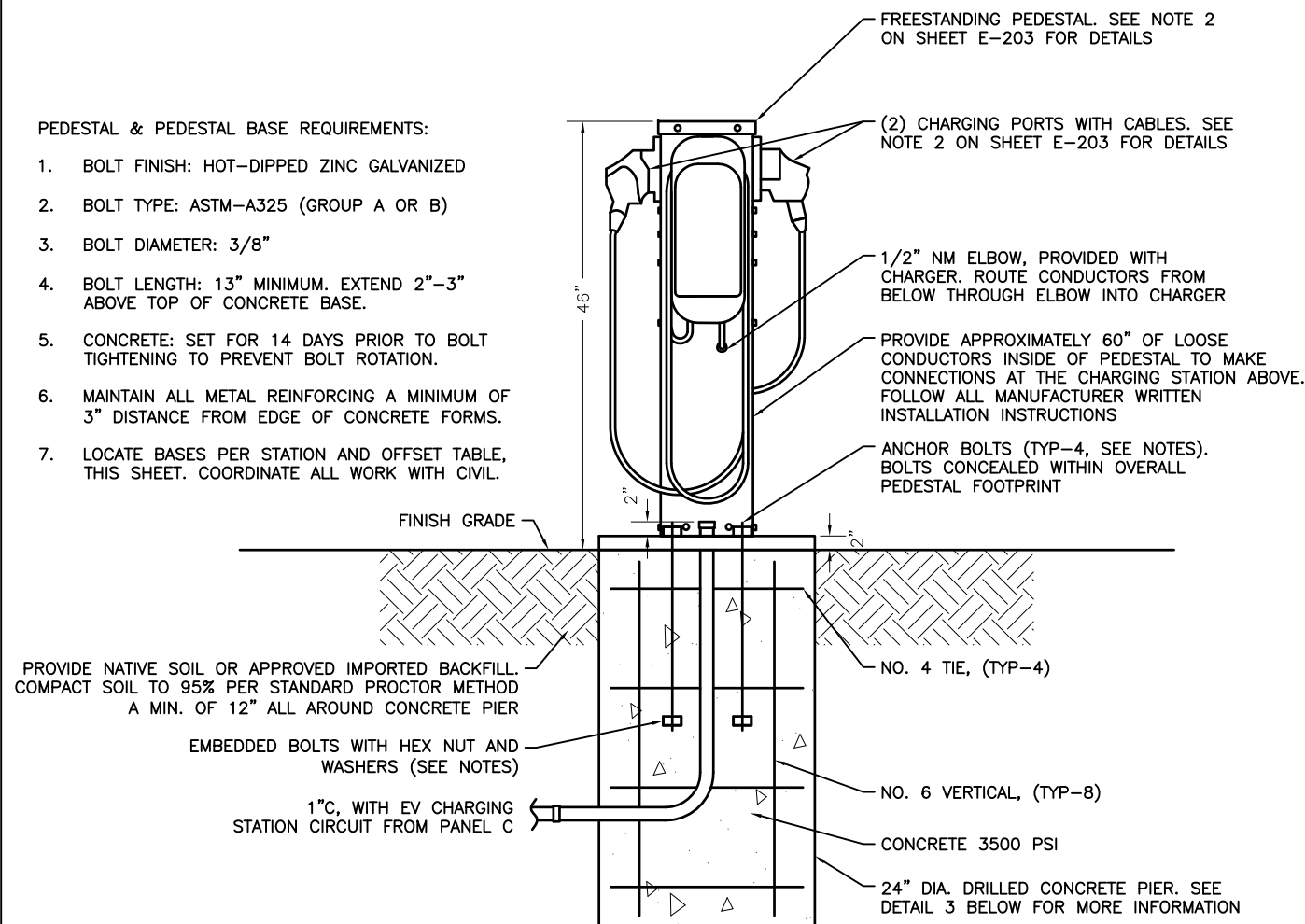
1 TRENCH DETAIL
NO SCALE

CHARGING STATION BASE SUMMARY

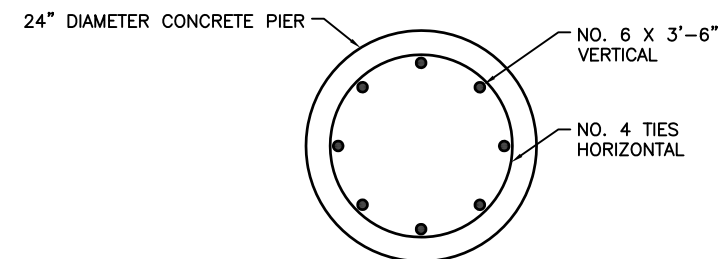
NO.	STATION	OFFSET	BASE ELEVATION
EVCS#1	"SN" 10+35.86	65.07'RT	30.67
EVCS#2	"SN" 10+51.12	65.07'RT	30.74
PANEL C	"SN" 10+38.50	61.49'RT	30.76

PEDESTAL & PEDESTAL BASE REQUIREMENTS:

- BOLT FINISH: HOT-DIPPED ZINC GALVANIZED
- BOLT TYPE: ASTM-A325 (GROUP A OR B)
- BOLT DIAMETER: 3/8"
- BOLT LENGTH: 13" MINIMUM. EXTEND 2"-3" ABOVE TOP OF CONCRETE BASE.
- CONCRETE: SET FOR 14 DAYS PRIOR TO BOLT TIGHTENING TO PREVENT BOLT ROTATION.
- MAINTAIN ALL METAL REINFORCING A MINIMUM OF 3" DISTANCE FROM EDGE OF CONCRETE FORMS.
- LOCATE BASES PER STATION AND OFFSET TABLE, THIS SHEET. COORDINATE ALL WORK WITH CIVIL.



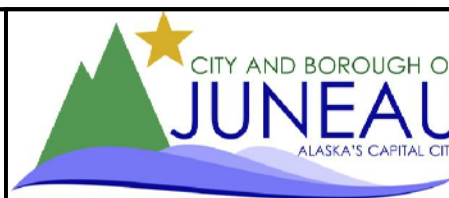
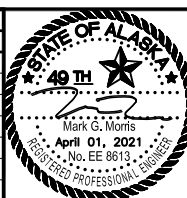
2 EV CHARGING STATION DETAIL
NO SCALE



3 EV CHARGING STATION CONCRETE PIER REBAR SECTION DETAIL
NO SCALE



REVISIONS			
REV	DATE	DESCRIPTION	BY



CAPITAL TRANSIT VALLEY TRANSFER STATION
 CONTRACT NO. BE20-268
 TRENCH DETAIL AND CHARGING STATION POST MOUNTING DETAILS
 MALL ROAD
 JUNEAU, ALASKA

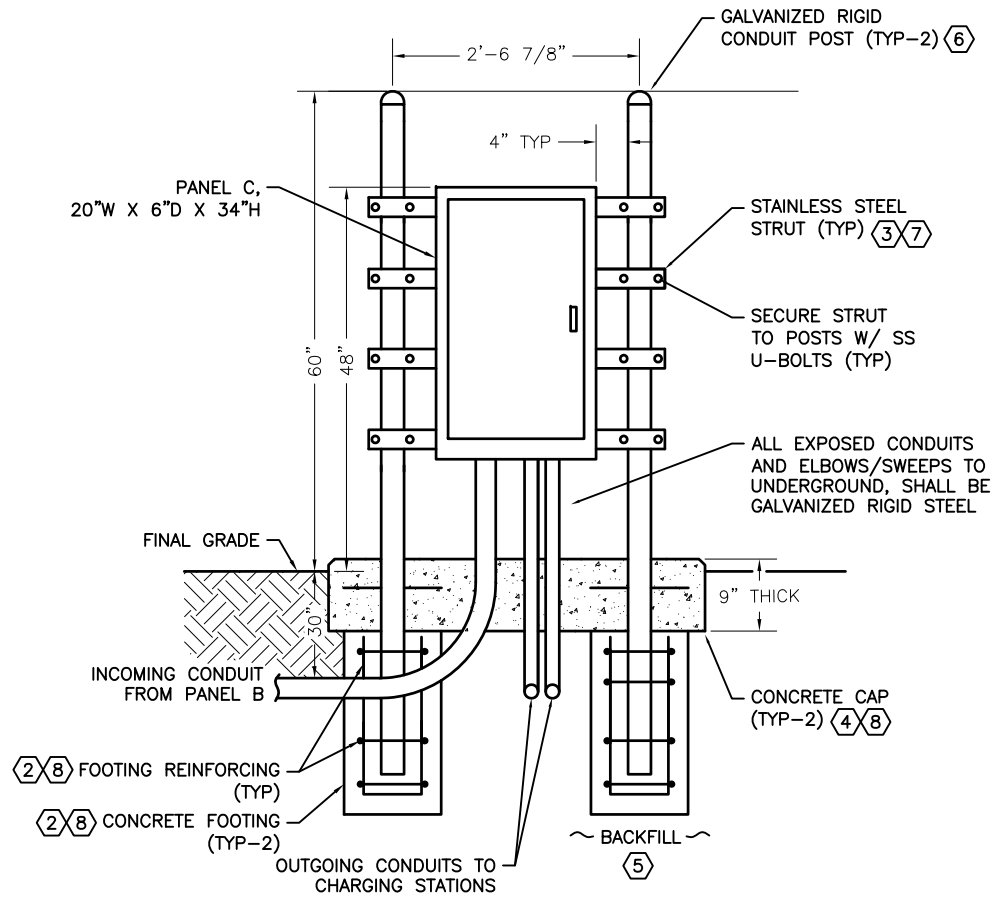
PROJECT	71014.01
DATE	4/01/2021
SHEET	E-404

X:\129 dowl engineering\30 valley transit center\working drawings\STATION & OFFSET TABLE.dwg PLOT DATE 2021-04-01 12:52 USER: jodi

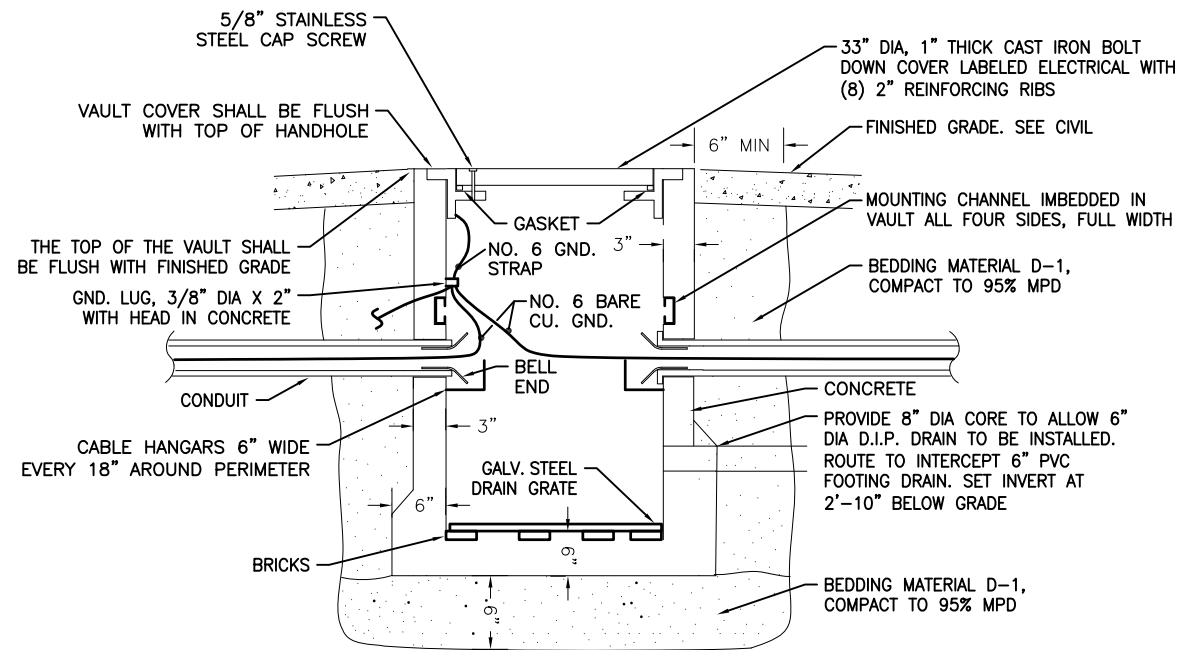
UTILITY EQUIPMENT LOCATIONS (FOR COORDINATION ONLY)			
STATION	OFFSET	ELEVATION	DESCRIPTION
STA "WE" 9+96.7	60.5' LT	29.49'	AEL&P J-BOX NO. 1
STA "WE" 9+95.4	56.6' LT	29.55'	ACS PEDESTAL NO. 1
STA "WE" 9+93.7	54.1' LT	29.56'	GCI PEDESTAL NO. 1
STA "WE" 11+31.7	14.0' RT	30.88'	AEL&P J-BOX NO. 2
STA "WE" 11+34.6	22.0' RT	30.90'	AEL&P TRANSFORMER NO. 1
STA "WE" 11+34.1	31.7' RT	31.02'	FUTURE AEL&P TRANSFORMER NO. 2
STA "WE" 11+29.5	39.3' RT	31.11'	ACS PEDESTAL NO. 2
STA "WE" 11+29.5	43.3' RT	31.11'	GCI PEDESTAL NO. 2
STA "WE" 14+03.5	10.4' LT	33.40'	EXISTING TRANSFORMER NO. 3
STA "WE" 14+12.5	5.0' LT	31.17'	ACS PEDESTAL NO. 3
STA "WE" 14+16.5	4.5' LT	31.15'	GCI PEDESTAL NO. 3
STA "WE" 14+22.5	1.0' RT	31.14'	AEL&P TRANSFORMER NO. 4
STA "WE" 14+30.5	4.4' LT	31.12'	AEL&P SWITCH NO. 1
STA "WE" 13+94.9	11.3' LT	34.35'	AEL&P PEDESTAL NO.1
STA "WE" 13+90.9	11.3' LT	34.74'	ACS PEDESTAL NO. 4
STA "WE" 13+86.9	11.4' LT	34.70'	GCI PEDESTAL NO. 4
STA "WE" 11+89.6	57.0' RT	29.95'	VAULT

NOTES:

- LOCATE EQUIPMENT WHERE SHOWN. LOCATIONS ARE PROVIDED TO THE CENTER OF THE EQUIPMENT. ADJUST CONDUIT FEEDING EQUIPMENT SO IT ENTERS EQUIPMENT AT THE CORRECT LOCATIONS.
- ELEVATIONS PROVIDED ARE THE ELEVATION TO FINISHED GRADE AT THE LOCATION GIVEN. INSTALL EQUIPMENT PER MOUNTING DETAILS.



① PANEL C ELEVATION



② POWER AND SIGNAL VAULT
NO SCALE

NOTES: (APPLICABLE TO DETAIL 1)

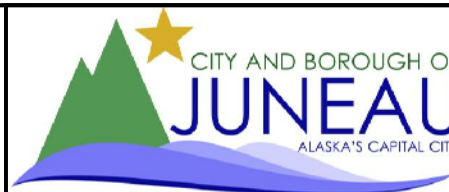
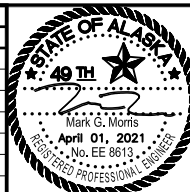
- PROVIDE APPROVAL DRAWINGS FOR CHANNEL STRUT RACK DURING THE SUBMITTAL PROCESS. DRAWINGS SHALL INCLUDE THE FOLLOWING INFORMATION: DIMENSIONS, WEIGHTS, DETAILS, REINFORCING, SEGMENTS LENGTHS AND SIZES, ENCLOSURE LAYOUTS TO SCALE, AND CONDUIT LOCATIONS.
- 12" DIAMETER X 4' DEEP CONCRETE FOOTINGS. PROVIDE WITH REINFORCING AS FOLLOWS: (4) #4 VERTICAL AND #3 CIRC. TIES AT 12" O.C. (2-TIES NEAR TOP).
- ALL CHANNEL STRUT TO BE STAINLESS STEEL. ALL POSTS AND CONDUIT TO BE GALVANIZED RIGID STEEL. TREAT ALL FIELD CUT STRUT AND CONDUIT SEGMENTS WITH GREY GALVANIC TOUCH UP PAINT TO INHIBIT CORROSION.
- PROVIDE CONCRETE CAP AROUND POST PENETRATION INTO GRADE THAT EXTENDS 2" ABOVE GRADE, AND MINIMUM OF 2" PAST FOOTING BELOW ALL SIDES. PROVIDE CAP WITH EMBEDDED GALVANIZED WIRE MESH.
- PROVIDE NATIVE SOIL OR APPROVED IMPORTED BACKFILL. COMPACT A MINIMUM OF 12" ALL SIDES OF FOOTINGS TO 95% PER MODIFIED PROCTOR DENSITY METHOD.
- 4" DIAMETER X 8' TALL HOT DIPPED GRS CONDUIT POST FILLED WITH CONCRETE. BURY 3' INTO GROUND (TYP-2).
- 1-1/2" STAINLESS STEEL CHANNEL STRUT. MOUNT STRUT TO POSTS AND EQUIPMENT TO STRUT.
- MAINTAIN ALL METAL REINFORCING A MINIMUM OF 3" DISTANCE FROM EDGE OF CONCRETE FORMS.
- ALL MOUNTING HARDWARE TO BE STAINLESS STEEL.

NOTES: (APPLICABLE TO DETAIL 2)

- VAULT SHALL HAVE OUTSIDE DIMENSIONS OF 4' WIDE X 4' LONG X 4' DEEP. OLD CASTLE 444-LA OR LINDSEY CSU #194-115-111 OR EQUAL. INCREASE DEPTH AS REQUIRED TO MAINTAIN DRAINAGE AT 1% MIN SLOPE.
- THE COVERS FOR VAULTS CONTAINING POWER CABLES SHALL BE LABELED "ELECTRICAL". THE COVERS FOR VAULTS CONTAINING TELEPHONE CABLES SHALL BE LABELED "SIGNAL".
- PROVIDE 6" DRAINS FOR ALL VAULTS.
- PROVIDE A NO. 2, 30' GROUND RING AROUND THE VAULT. BOND TO GROUND LUG.
- ROUTE THE DRAINS FROM VAULTS TO STRUCTURES/DAYLIGHT AS SHOWN ON SITE SHEETS EU10-EU13. CUT A HOLE IN THE STRUCTURE AND SEAL THE DRAIN PIPE ENTRANCE INTO THE STRUCTURE PER CIVIL AND AS REQUIRED. SLOPE THE DRAINS AT 1% MIN INTO THE STRUCTURE/DAYLIGHT.

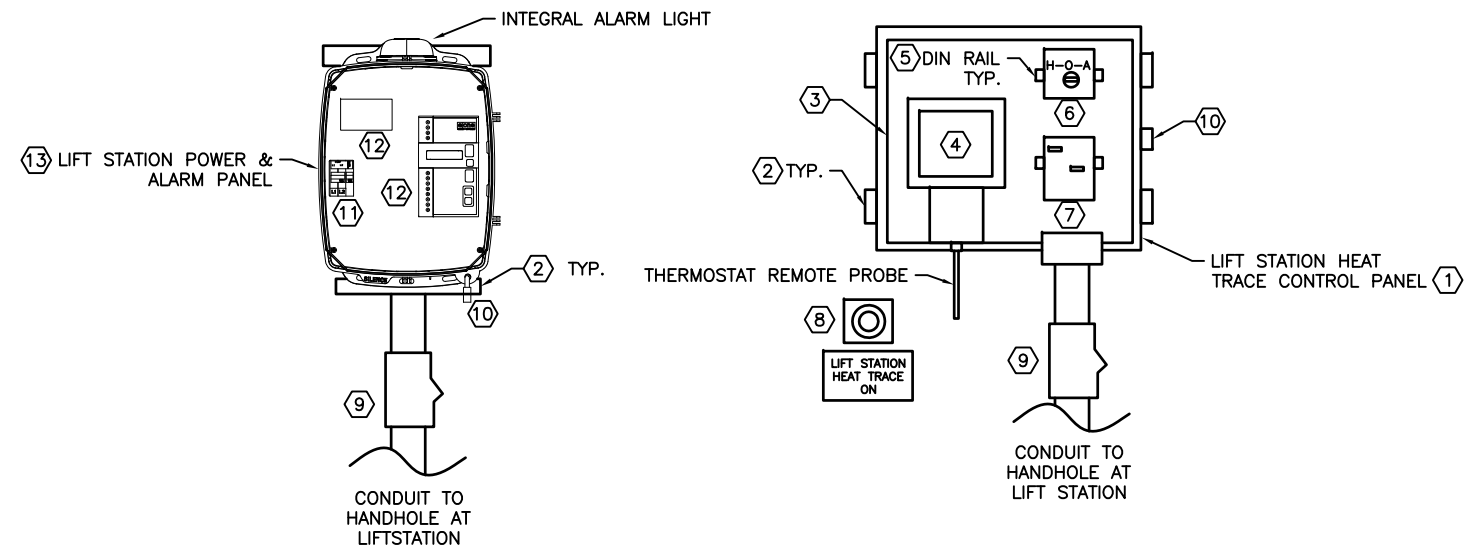
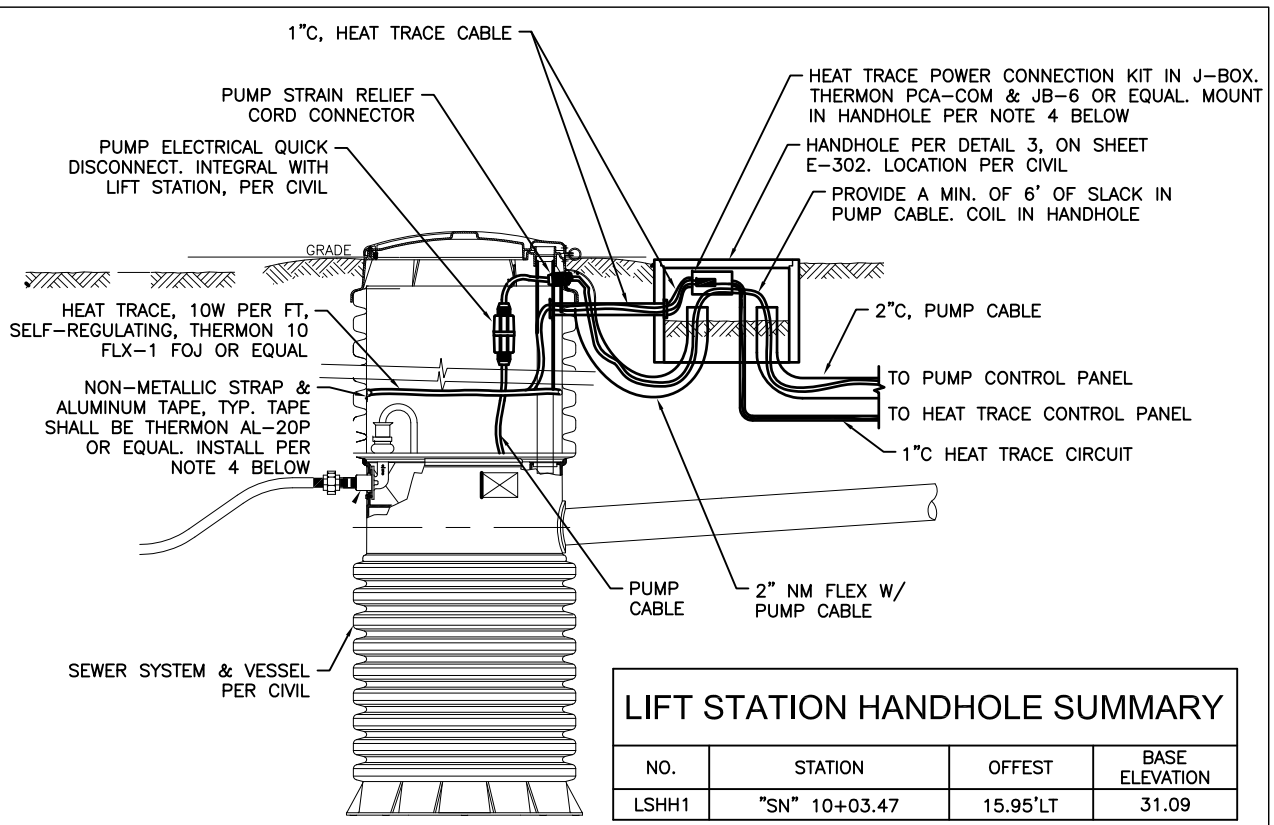
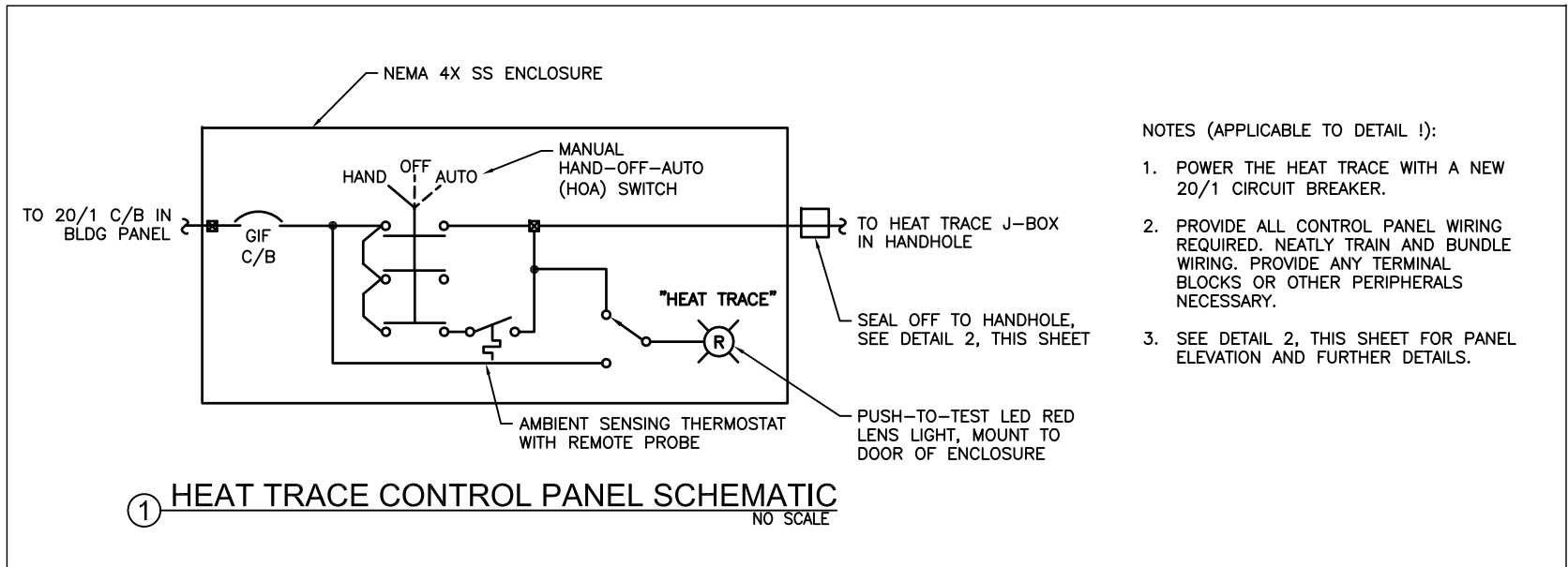


REVISIONS			
REV	DATE	DESCRIPTION	BY



CAPITAL TRANSIT VALLEY TRANSFER STATION
CONTRACT NO. BE20-268
UTILITY EQUIPMENT LOCATIONS TABLE
AND PANEL C ELEVATION
MALL ROAD
JUNEAU, ALASKA

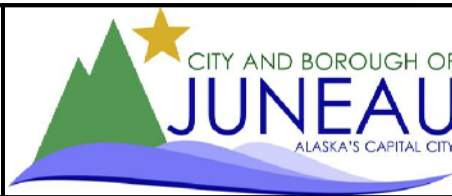
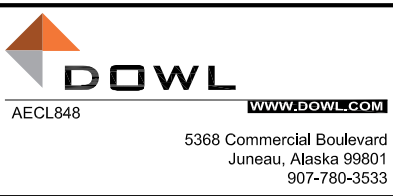
PROJECT	71014.01
DATE	4/01/2021
SHEET	E-405



- NOTES (APPLICATION TO DETAIL 3):**
- BURY THE CONDUIT PER THE TRENCH DETAIL, SHEET E-404.
 - INSTALL (2) HALF CIRCLE SECTIONS OF 1" RIGID INSULATION (PINK BOARD) THAT ARE HINGED IN THE MIDDLE FORMING A CIRCLE. INSTALL THIS AS HIGH AS POSSIBLE IN THE WELL WITH A CUTOUT FOR THE VENT TUBE AND ELECTRICAL CORDS AS REQUIRED. INSTALL THE FOAM SO THAT IT CAN BE EASILY REMOVED TO CHANGE OUT THE CORE. INSTALL THE FOAM ON "L" BRACKETS INSIDE THE WELL ABOVE THE HEAT TRACE AND DISCHARGE PIPING.
 - PROVIDE FLEX CONDUIT LARGE ENOUGH TO GO OVER THE PROTECTIVE CABLE SHROUD OF THE PUMP CABLE. ROUTE THE PUMP CABLE FROM THE PUMP CONTROL PANEL IN 2" GRS UP INTO THE HANDHOLE. LOOP AT LEAST 6' OF SLACK IN HANDHOLE THEN ROUTE THROUGH NM FLEX TO PROTECTIVE SHROUD THEN INTO WELL CASING THROUGH THE STRAIN RELIEF CORD CONNECTOR AND TO THE ELECTRICAL QUICK DISCONNECT.
 - INSTALL THE HEAT TRACE JUNCTION BOX AND CONNECTION KIT ON THE INSIDE WALL OF THE HANDHOLE. CONNECT THE HEAT TRACE TO THE INCOMING BRANCH CONDUCTORS VIA THE KIT PER WRITTEN MANUFACTURER INSTRUCTIONS. ROUTE THE HEAT TRACE THROUGH THE 1" CONDUIT INTO THE WELL CASING AS HIGH AS POSSIBLE. LOCATE THE HANDHOLE AS CLOSE AS PRACTICAL TO THE WELL CASING. USE GRS CONDUIT WITH BUSHINGS ON EACH END. ROUTE THE HEAT TRACE CABLE DOWN THE SIDE OF THE WELL CASING AND AROUND THE PERIMETER AS LOW AS POSSIBLE WHILE LEAVING ENOUGH ROOM TO DISCONNECT THE PUMP CORD AND TO REMOVE IT WITHOUT DAMAGING THE HEAT TRACE. SECURE THE HEAT TRACE TO THE WELL WALL WITH NM STRAPS OVER A RUBBER GROMMET TO PROTECT THE HEAT TRACE. PROVIDE TWO REVOLUTIONS OF HEAT TRACE SPACED 6" APART AROUND THE WELL PERIMETER. PROVIDE A TERMINATION KIT ON THE END OF THE TRACE. ATTACH THE HEAT TRACE TO THE WELL WALL WITH THE ALUMINUM TAPE. OVER THE TAPE ON 6" CENTERS PROVIDE A NM STRAP WITH A RUBBER GROMMET BETWEEN THE STRAP AND THE TAPE TO PROTECT THE HEAT TRACE. ATTACH THE GROUND CONDUCTOR TO THE COPPER BRAID. DO NOT PENETRATE THE OUTER WALL OF THE WELL WITH THE STRAP SCREWS. LOCATE THE SCREWS SO THAT THEY ENTER THE DEAD AIR SPACE IN THE WELL WALL.
 - THE LIFT STATION IS FULLY SPECIFIED PER THE CIVIL PLANS AND SPECIFICATIONS. SEE CIVIL FOR COMPLETE DETAILS.
 - THE HEAT TRACE SYSTEM PROVIDED SHALL BE PROVIDED COMPLETE FROM ONLY ONE MANUFACTURER, THERMON OR EQUAL. HEAT TRACE SYSTEM SHALL BE FULLY COMPATIBLE WITH LIFT STATION REQUIREMENTS.

- NOTES (APPLICABLE TO DETAIL 2):**
- LIFT STATION HEAT TRACE CONTROL BOX. 12" X 12" X 6", NEMA 4X STAINLESS STEEL WITH HINGED, PAD LOCKABLE DOOR. MOUNT TO BUILDING EXTERIOR SIDING ON MOUNTING BOARD, PER ARCH. MOUNT HOA SWITCH AND BREAKER INSIDE ON EQUIPMENT MOUNTING BOARD.
 - STAINLESS STEEL SUPPORT CHANNEL, AS REQUIRED FOR PANEL MOUNTING ONTO EXTERIOR WALL. USE ALL STAINLESS HARDWARE.
 - INTERNAL EQUIPMENT MOUNTING BOARD. GROUND TO SOURCE CIRCUIT GROUND CONDUCTOR.
 - AMBIENT SENSING THERMOSTAT WITH REMOTE PROBE. THERMON BX4-15140 OR EQUAL. MOUNT SO THAT ONLY THE REMOTE PROBE IS OUTSIDE THE ENCLOSURE. SET TO 40 DEGREES FAHRENHEIT OR AS RECOMMENDED PER MANUFACTURER LITERATURE.
 - PROVIDE SEGMENTS OF DIN RAIL AS REQUIRED FOR BREAKER, HOA SWITCH, AND ANY OTHER COMPONENTS AS NECESSARY.
 - PROVIDE 30.5MM, OIL TIGHT/WATER TIGHT/CORROSION RESISTANT NEMA 4X SWITCH MOUNTED IN ITS OWN ENCLOSURE ON BACKBOARD OF ENCLOSURE.
 - PROVIDE A 20/1, 120V, 30mA GFI CIRCUIT BREAKER POWERED FROM SOURCE CIRCUIT.
 - OIL TIGHT/WATER TIGHT/CORROSION RESISTANT NEMA 4X PUSH-TO-TEST LED LIGHT WITH RED LENS, 30.5MM DIAMETER. MOUNT ONTO DOOR OF ENCLOSURE SO VISIBLE FROM OUTSIDE. PROVIDE PHENOLIC LABEL SCREWED TO COVER.
 - PROVIDE CLASS 1, DIVISION 2 CONDUIT SEAL-OFF. HUBBELL KILLARK EY SERIES OR EQUAL. FILL WITH MANUFACTURER APPROVED SEALING COMPOUND PRIOR TO SUBSTANTIAL COMPLETION.
 - PADLOCK PROVISION FOR CBJ LOCK.
 - INTEGRAL 20/2, 240V MAIN CIRCUIT BREAKER POWER FROM SOURCE CIRCUIT.
 - INTEGRAL CONTROL CONTACTOR AND CONTROL/PROGRAMMING BOARD. CONTRACTOR TO PROVIDE ALL SYSTEM SETUP, COMMISSIONING, TESTING, AND PROGRAMMING OF THE LIFT STATION CONTROL PANEL PER MANUFACTURER INSTRUCTIONS.
 - LIFT STATION ALARM PANEL. NEMA 4X (THERMOPLASTIC ENCLOSURE WITH INTEGRAL ALARM LIGHT, CONTROL BOARD, CONTACTOR, BREAKERS. SEE CIVIL FOR COMPLETE DETAILS. BASIS OF DESIGN IS THE E-ONE SENTRY PANEL.
 - PROVIDE ALL POWER AND CONTROL TO AND WITHIN PANELS AS REQUIRED. NEATLY TRAIN AND BUNDLE WIRING. PROVIDE ANY TERMINAL BLOCKS OR OTHER PERIPHERALS NECESSARY.

REVISIONS			
REV	DATE	DESCRIPTION	BY



CAPITAL TRANSIT VALLEY TRANSFER STATION
CONTRACT NO. BE20-268
LIFT STATION ELECTRICAL DETAILS

MALL ROAD
JUNEAU, ALASKA

PROJECT	71014.01
DATE	4/01/2021
SHEET	
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