



1) Separate L & P electrical permit is required. 2) Installation subject manufactures installation requirements.

City of Puyallup Building REVIEWED FOR COMPLIANCE
 RayC
 03/31/2022
 11:08:41 AM



City of Puyallup Development Engineering APPROVED
 See permit conditions.
 ycharitou
 03/07/2022
 12:17:10 PM



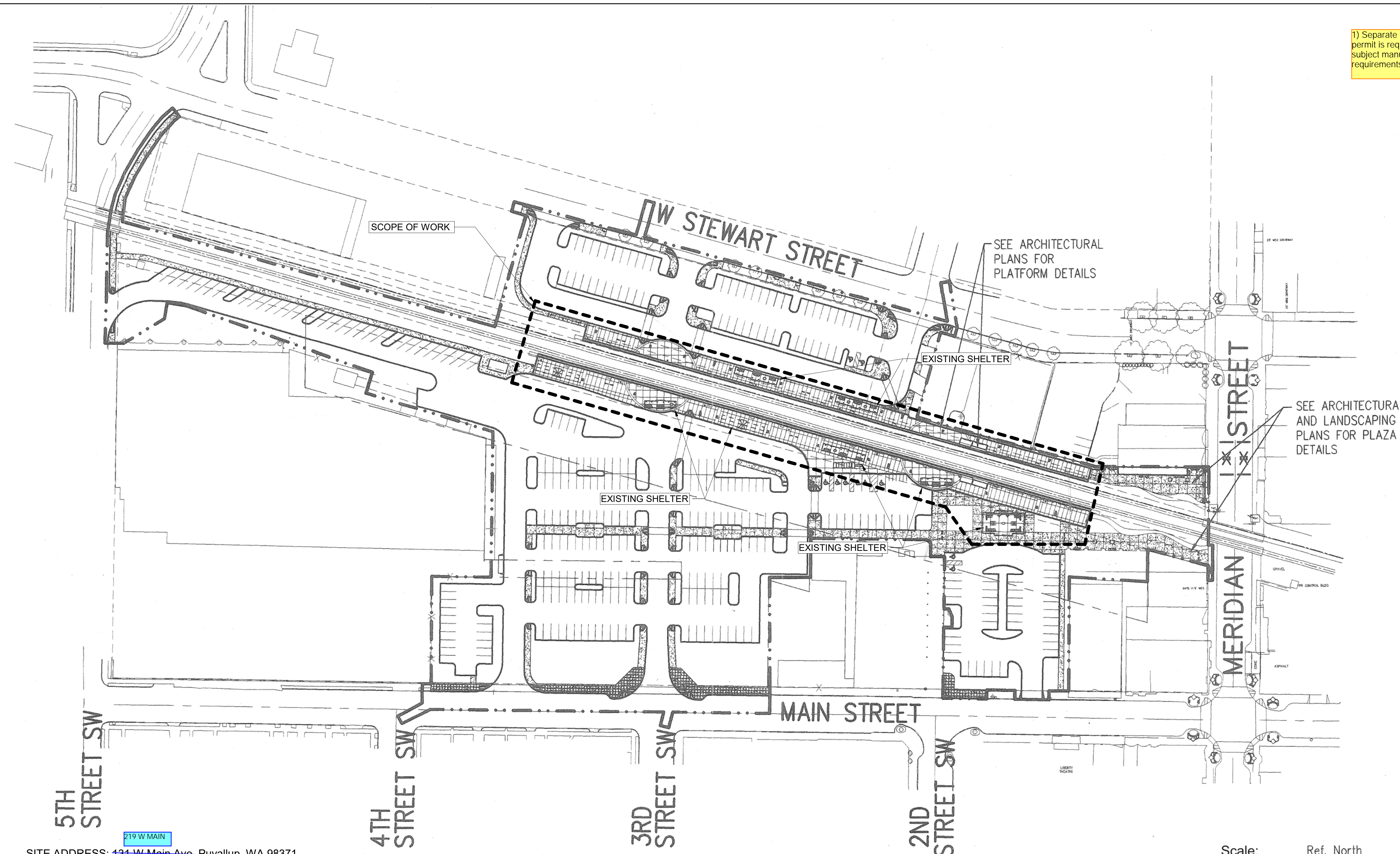
City of Puyallup Development & Permitting Services
ISSUED PERMIT

Building	Planning
Engineering	Public Works
Fire	Traffic

Call Before You Dig. It's the law. Dial 811 or call 1-800-424-5555.

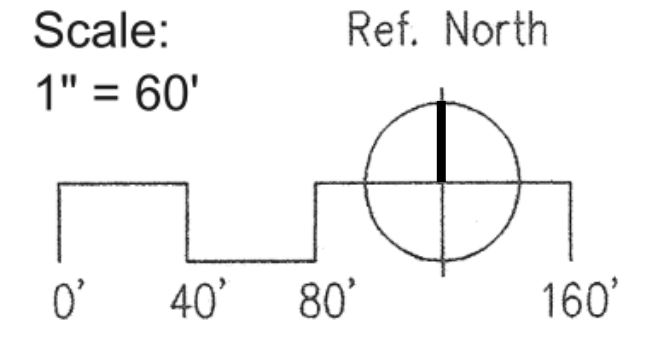
Prior to starting site work, request an erosion and sediment inspection through the CityView portal.

No work is permitted in City right-of-way unless authorization is granted from the civil permit holder for this site or a City right-of-way permit is obtained.



SITE ADDRESS: 131 W Main Ave, Puyallup, WA 98371
 PARCEL #: 7940100361
 OWNER: SOUND TRANSIT

NOTES:
 1. AS-BUILT BACKGROUND INFORMATION SHOWN HAS BEEN GENERATED BY OTHERS AND IS INTENDED ONLY TO SHOW THE AREA OF WORK.



PLAN

VICINITY SITE PLAN

SCALE: 1" = 60'-0"

1

PERMIT SET

DESIGNED BY:
J STEPHENS

DRAWN BY:
J STEPHENS

CHECKED BY:
A EVERSMAN

APPROVED BY:
A EVERSMAN



MLA ENGINEERING
 1424 Fourth Ave, Suite 415
 Seattle, WA 98101
 (206) 264-2727
 www.mlaengineering.com
 MLA project #: 2019.116.4

SUBMITTED BY:

DATE:

REVIEWED BY:



DATE:

SCALE:
1" = 60'-0"

FILENAME:
592-SFP001

CONTRACT No.:
RTA/CN 0072-21

SUBMITTAL DATE:
01/17/2022

**SOUND TRANSIT COMMUTER RAIL
 PIMS SOUNDER CIVIL WORK**

TASK ORDER 40.00

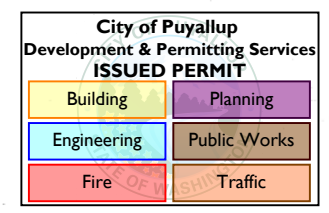
STRUCTURAL
 VICINITY SITE PLAN
 PUYALLUP STATION

DRAWING No.:
592-SFP001

FACILITY ID:
592

SHEET No.:
39

REV:



STORMWATER TREATMENT VAULT VORTECHS MODEL #2000, SEE 1 C-031

NOTE: A PORTION OF THIS STORM DRAIN IS REQUIRED FOR TEMPORARY SEDIMENTATION POND. SEE SHEET C-008.

EXIST UTILITY POLE TO BE RELOCATED BY PSE

EXIST UTILITY POLE TO BE RELOCATED BY PSE

EXIST UTILITY POLE TO BE RELOCATED BY PSE

MATCHLINE, SEE SHEET C-027

PROPOSED WATERLINE EASEMENT

FIBER OPTIC DUCTBANK CASINGS. EXTEND EAST END OF THE TWO 10-INCH STEEL PIPES AND ONE 4-INCH PVC CONDUIT UNDER MERIDIAN STREET. SEE NOTE 6. SEE SPECIFICATION SECTION 02400 FOR INSTALLATION REQUIREMENTS. SEE 1 E-300

EXIST UTILITY POLE TO BE RELOCATED BY PSE

ABANDONED 8" W

RELOCATE WATER LINE, SEE 3 C-02

N 682842.21
E 1193567.31

EXIST UTILITY POLE TO BE RELOCATED BY PSE

N 682834.12
E 1193100.23
RELOCATE WATER LINE, SEE 4 C-02

NOTE: CONTRACTOR SHALL VERIFY LOCATION OF ARTESIAN WELL AND MAINTAIN OR REROUTE PIPING.

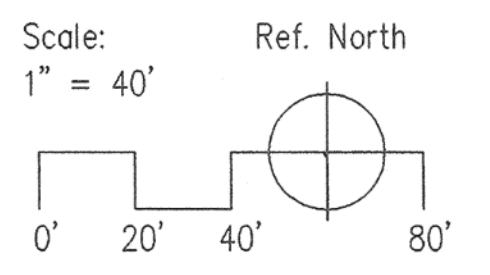
CB #47
RIM = 45.73
IE IN = 42.52
IE OUT = 42.52

INSTALL 8" CAP
8" D.I.P. DRAIN PIPE
S = 2%
STUB TO BACK OF WALK AND CAP

8" D.I.P. DRAIN PIPE
S = 2%
L = 86.0
FIRE HYDRANT ASSEMBLY PER CITY OF PUYALLUP STD NO. 304

NOTES:

- ALL EXISTING UTILITIES SHALL REMAIN IN SERVICE UNLESS NOTED OTHERWISE.
- ALL LIDS, GRATES AND VALVE BOXES SHALL BE ADJUSTED TO FINISH GRADE.
- SEE SHEETS C-028 AND C-029 FOR STORM SEWER PROFILES.
- SEE TABLE ON SHEET C-027 FOR COORDINATES OF STORM DRAIN STRUCTURES.
- SEE 2 C-032 FOR WATER SERVICE TRENCH DETAIL.
- EXTEND EAST END OF TWO 10-INCH CASING PIPES AND ONE 4-INCH PVC CONDUIT 20 FEET EAST OF EAST SIDEWALK, OR 15 FEET EAST OF NEAREST UNDERGROUND UTILITY, WHICHEVER IS GREATER. BORE OR JACK PIPE/CONDUIT UNDER MERIDIAN STREET IN ACCORDANCE WITH SPECIFICATION SECTION 02400.



Fire Hydrant/FDC Locator APPROVED
BY: CITY OF PUYALLUP FIRE DEPARTMENT
DATE: 6/19/21
NOTE: This approval is void after 1 year from approval date. The City will not be responsible for errors and/or omissions on these plans.
Field changes to these plans as determined by the City Engineer.

APPROVED
BY: CITY OF PUYALLUP ENGINEERING DEPARTMENT
DATE: _____
NOTE: This approval is void after 1 year from approval date. The City will not be responsible for errors and/or omissions on these plans.
Field conditions may dictate changes to these plans as determined by the City Engineer.

NOTES:
1. AS-BUILT BACKGROUND INFORMATION SHOWN HAS BEEN GENERATED BY OTHERS AND IS INTENDED ONLY TO SHOW THE AREA OF WORK.

SITE UTILITIES PLAN

SCALE: 1" = 40'-0"

SCALE: 1" = 40'

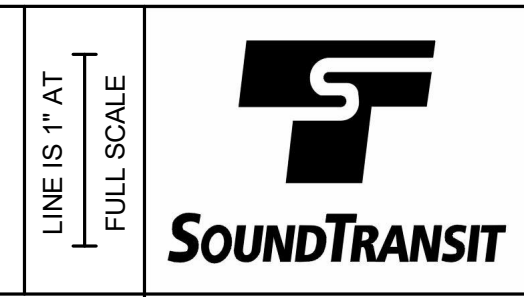
PERMIT SET

DESIGNED BY: J STEPHENS
DRAWN BY: J STEPHENS
CHECKED BY: M LEONARD
APPROVED BY: M LEONARD



MLA ENGINEERING
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www.mlaengineering.com
MLA project #: 2019.116.4

SUBMITTED BY: _____ DATE: _____ REVIEWED BY: _____



SCALE: 1" = 40'-0"
FILENAME: 592-SFP002
CONTRACT No.: RTA/CN 0072-21
SUBMITTAL DATE: 01/17/2022

**SOUND TRANSIT COMMUTER RAIL
PIMS SOUNDER CIVIL WORK**
TASK ORDER 40.00
STRUCTURAL
SITE UTILITIES PLAN
PUYALLUP STATION

DRAWING No.: 592-SFP002
FACILITY ID: 592
SHEET No.: 40
REV: _____

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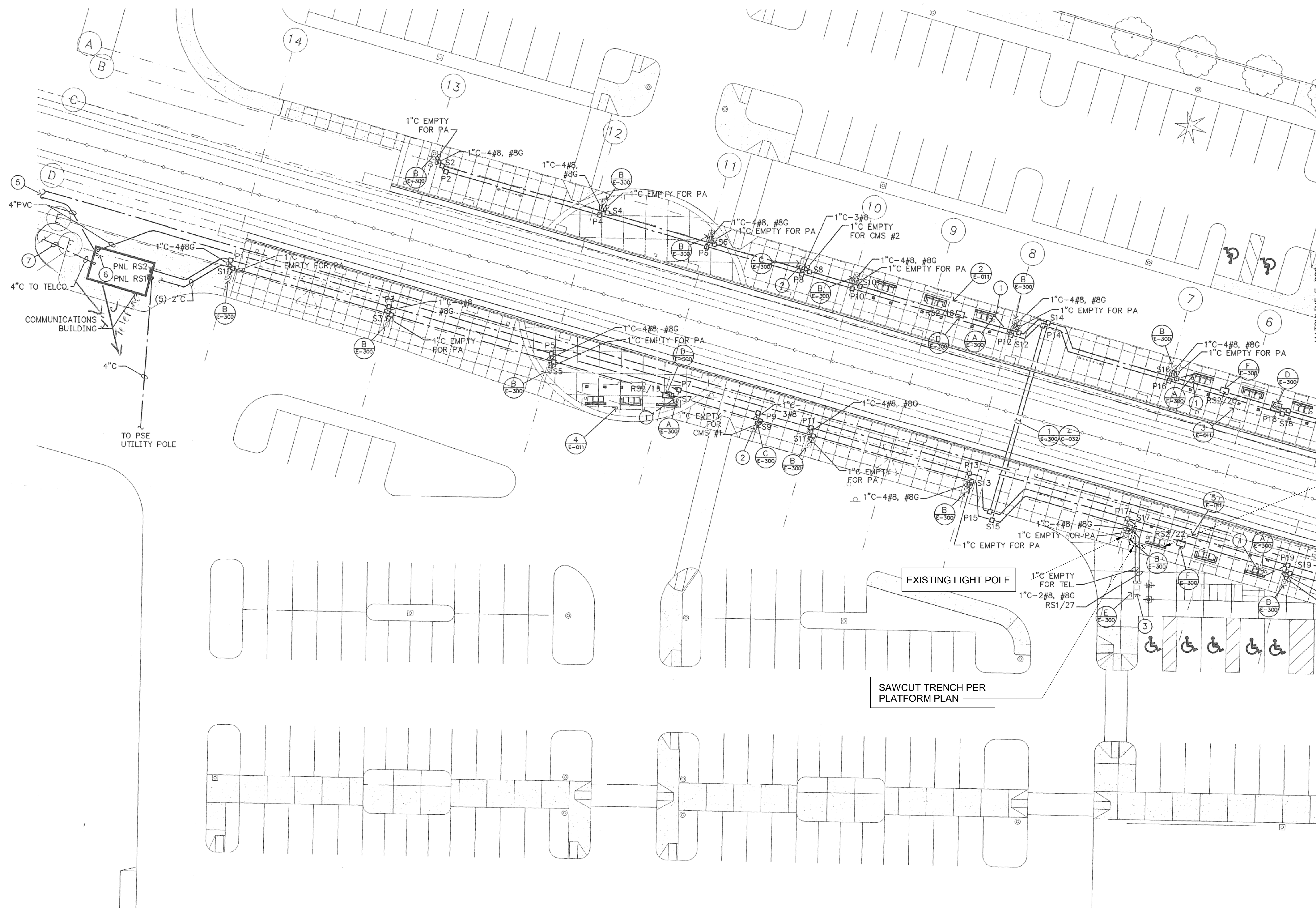
No.	DATE	DSN	CHK	APP	REVISION

GENERAL NOTES

1. PROVIDE PULL WIRE IN ALL EMPTY CONDUITS.
2. UNLESS OTHERWISE NOTED, ALL CONDUITS SHALL BE 1-1/2" PVC AND BURIED 30" MINIMUM BELOW GRADE. SEE TRENCH DETAIL SHEET E-301.
3. SEE ARCHITECTURAL PLANS FOR EXACT PULLBOX LOCATIONS

PLAN NOTES

1. SEE DRAWING E-011 FOR CONTINUATION AND CONDUIT SCHEMATIC. STUB-UP CONDUIT IN SHELTER FLOOR SLAB.
2. EXTEND CONDUITS TO THIS KNOCK-OUT AREA FOR FUTURE CMS. STUB OUT CONDUITS AND CAP FLUSH W/ PLATFORM.
3. COORDINATE WITH TELEPHONE CO. FOR EXACT LOCATION OF PUBLIC TELEPHONES.
4. STUB-OUT CONDUITS FOR TVM. SEE DRAWINGS E-300 AND E-301.
5. EXTEND 2EA-10" CASINGS FOR FUTURE FIBER OPTICS TO A PULLBOX NEAR 5TH STREET. SEE DWG. C-026 AND C-027
6. STUB-OUT AND CAP 4" FIBER OPTICS CONDUITS IN COMMUNICATIONS BUILDING AND ROUTED CONDUITS AS SHOWN.
7. INSTALL CONDUIT FOR TELEPHONE SERVICE FROM THE COMMUNICATIONS BUILDING TO EXISTING UTILITY POLE ON THE NORTH SIDE OF MAIN STREET POLE IS LOCATED APPROXIMATELY 90 FEET WEST OF THE INTERSECTION OF MAIN STREET AND 3RD STREET SW.

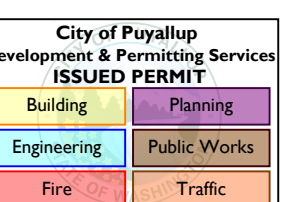


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ELECTRICAL SITE PLAN

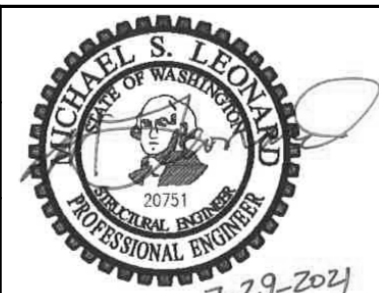
SCALE: 1" = 20'-0"

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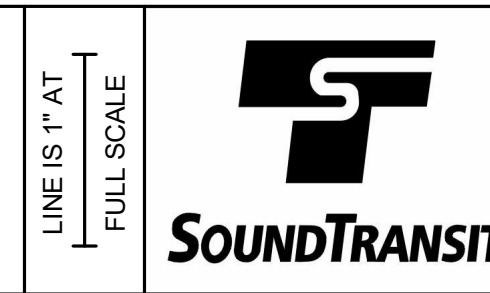
PERMIT SET

DESIGNED BY:
J STEPHENS
 DRAWN BY:
J STEPHENS
 CHECKED BY:
M LEONARD
 APPROVED BY:
M LEONARD



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SUBMITTED BY: DATE: REVIEWED BY: DATE:



SCALE:
1" = 20'-0"
 FILENAME:
592-SFP003
 CONTRACT No.:
RTA/CN 0072-21
 SUBMITTAL DATE:
01/17/2022

SOUND TRANSIT COMMUTER RAIL
PIMS SOUNDER CIVIL WORK
 TASK ORDER 40.00
 STRUCTURAL
 ELECTRICAL SITE PLAN
 PUYALLUP STATION

DRAWING No.:
592-SFP003
 FACILITY ID:
592
 SHEET No.: REV:
41

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No.	DATE	DSN	CHK	APP	REVISION

USE OF DRAWINGS

USE OF DRAWINGS AND COORDINATION: USE STRUCTURAL DRAWINGS IN CONJUNCTION WITH EXISTING ARCHITECTURAL, CIVIL, MECHANICAL AND OTHER DRAWINGS FOR BIDDING AND CONSTRUCTION. COORDINATE WORK AND VERIFY DIMENSIONS AND CONDITIONS FOR COMPATIBILITY BETWEEN TRADES. NOTIFY OWNER'S REPRESENTATIVE OF DISCREPANCIES PRIOR TO CONSTRUCTION.

DRAWING SCALE: NOTED DIMENSIONS TAKE PRECEDENCE OVER SCALED DIMENSIONS - DO NOT SCALE DRAWINGS.

DIMENSION VERIFICATION: DIMENSIONS NOTED PLUS OR MINUS (+/-) INDICATE UN-VERIFIED DIMENSIONS THAT REQUIRE CONFIRMATION OR DETERMINATION BY THE CONTRACTOR PRIOR TO FABRICATION AND CONSTRUCTION. NOTIFY OWNER'S REPRESENTATIVE IMMEDIATELY OF CONFLICTS OR VARIATIONS FROM INDICATED DIMENSIONS.

NOTE CONFLICTS: IF ANY STRUCTURAL NOTES ARE IN CONFLICT WITH EACH OTHER ARCHITECTURAL AND OTHER DRAWINGS, OR THE SPECIFICATIONS, USE THE MOST STRINGENT REQUIREMENT FOR BIDDING AND CONSTRUCTING THE WORK.

EXISTING CONDITIONS: INFORMATION SHOWN ON THE DRAWINGS RELATED TO EXISTING CONDITIONS REPRESENTS THE PRESENT KNOWLEDGE, BUT WITHOUT GUARANTEE OF ACCURACY. VERIFY ALL EXISTING DIMENSIONS, MEMBER SIZES, AND CONDITIONS IN THE FIELD PRIOR TO COMMENCING ANY WORK. REPORT CONDITIONS THAT CONFLICT WITH THE CONTRACT DOCUMENTS TO THE OWNER'S REPRESENTATIVE. DO NOT DEVIATE FROM THE CONTRACT DOCUMENTS WITHOUT WRITTEN DIRECTION FROM THE OWNER'S REPRESENTATIVE.

DESIGN AND CONSTRUCTION CRITERIA

GOVERNING BUILDING CODE: DESIGN AND CONSTRUCTION SHALL CONFORM TO THE REQUIREMENTS OF THE INTERNATIONAL BUILDING CODE (IBC), 2018 EDITION, AS AMENDED BY THE CITY OF PUYALLUP. THE PUBLICATIONS LISTED BELOW ARE THE GOVERNING CODES AND STANDARDS REFERENCED BY THE BUILDING CODE. IN CASE OF CONFLICTING REQUIREMENTS, THE BUILDING CODE SHALL GOVERN.

PRIMARY REFERENCE STANDARDS:

ASCE MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES, ASCE 7-16
 ASTM AMERICAN SOCIETY FOR TESTING AND MATERIALS
 SOUND TRANSIT DESIGN CRITERIA MANUAL REVISION 5, INCLUDING AMENDMENT 10, DATED FEBRUARY 2021

DESIGN LOADS:

IN ADDITION TO THE DEAD LOADS, THE FOLLOWING LOADS WERE USED FOR DESIGN:
 LIVE LOADS: 300 lb

WIND LOADS:

SOLID FREE-STANDING SIGN
 DESIGN WIND SPEED, Vult - 97 MPH
 RISK CATEGORY - II
 EXPOSURE CATEGORY - C
 TOPOGRAPHIC FACTOR, Kzt - 1.00

SEISMIC LOAD:

EQUIVALENT LATERAL FORCE PROCEDURE
 MAPPED SPECTRAL RESPONSE ACCELERATION, Ss - 1.272
 MAPPED SPECTRAL RESPONSE ACCELERATION, S1 - 0.438
 LONG PERIOD TRANSITION, TL - 6
 SITE CLASS - D
 RISK CATEGORY - II
 SEISMIC IMPORTANCE FACTOR, Ie - 1.0
 DESIGN SPECTRAL RESPONSE ACCELERATION, Sds - 1.018
 DESIGN SPECTRAL RESPONSE ACCELERATION, Sd1 - 0.544
 SEISMIC DESIGN CATEGORY - D

MEANS AND METHODS

MEANS AND METHODS: THE CONTRACTOR IS RESPONSIBLE FOR CONSTRUCTION MEANS AND THE METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES REQUIRED FOR SAFELY CONSTRUCTING ALL WORK.

JOBSITE SAFETY: THE CONTRACTOR IS SOLELY RESPONSIBLE FOR PROVIDING A SAFE PLACE TO WORK AND FOR MEETING THE REQUIREMENTS OF ALL APPLICABLE JURISDICTIONS. EXECUTE WORK IN A MANNER THAT PROVIDES FOR THE SAFETY OF PERSONS AND ADJACENT PROPERTY AGAINST INJURY AND DAMAGE DUE TO FALLING DEBRIS AND OTHER HAZARDS IN CONNECTION WITH CONSTRUCTING THE WORK.

STORAGE AND HANDLING OF MATERIALS: THE CONTRACTOR SHALL STORE AND HANDLE ALL MATERIALS IN A SUITABLE MANER TO PREVENT DAMAGE OF THE ELEMENTS.

SPECIAL INSPECTION

SPECIAL INSPECTION REQUIREMENTS: SPECIAL INSPECTION IS REQUIRED IN ACCORDANCE WITH IBC SECTION 1705, THE DRAWINGS AND THE PROJECT SPECIFICATIONS. THESE INSPECTIONS SHALL BE PERFORMED BY A TESTING AGENCY, DESIGNATED BY THE OWNER'S REPRESENTATIVE, QUALIFIED TO PERFORM THE TYPES OF INSPECTIONS SPECIFIED. THE ARCHITECT AND STRUCTURAL ENGINEER SHALL BE FURNISHED WITH COPIES OF ALL INSPECTION REPORTS AND TEST RESULTS, AS WELL AS A FINAL SIGNED REPORT FOR THE INSPECTED ITEMS.

INSPECTION COORDINATION: COORDINATE THE INSPECTIONS BY PROVIDING ADEQUATE NOTICE TO THE INSPECTION AGENCY AND OWNER'S CONSTRUCTION REPRESENTATIVE OF DATES WHEN WORK IS READY FOR INSPECTION, AND BY PROVIDING ALLOWANCE IN THE SCHEDULE FOR THE SPECIFIED INSPECTIONS TO OCCUR.

STRUCTURAL OBSERVATION: THE STRUCTURAL OBSERVATIONS SHALL BE PERFORMED BY THE OWNER'S REPRESENTATIVE REGISTERED DESIGN PROFESSIONAL. THE STRUCTURAL OBSERVER SHALL SUBMIT TO INSPECTION SERVICES A WRITTEN STATEMENT THAT SITE VISITS HAVE BEEN MADE AND IDENTIFYING ANY REPORTED DEFICIENCIES THAT TO THE BEST OF THE STRUCTURAL OBSERVER'S KNOWLEDGE HAVE NOT BEEN RESOLVED. THE STRUCTURE WILL NOT BE IN COMPLIANCE UNTIL THE REGISTERED DESIGN PROFESSIONAL HAS NOTIFIED INSPECTION SERVICES THAT ALL DEFICIENCIES ARE RESOLVED. STRUCTURAL OBSERVATIONS WILL BE PERFORMED AT SIGNIFICANT PROJECT MILESTONES.

ANCHORS INSTALLED IN HARDENED CONCRETE: SPECIAL INSPECTION OF MECHANICAL AND ADHESIVE ANCHORS IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND THE REQUIREMENTS OF THE ICC-ES REPORT FOR THE PRODUCT INSTALLED SHALL BE PROVIDED PER IBC TABLE 1705.3, ITEM 4.

COORDINATION WITH OTHERS

THE PIMS SOUNDER CIVIL STRUCTURAL WORK PACKAGE WILL BE FOLLOWED IMMEDIATELY BY A DATA/POWER WORK PACKAGE BEING PERFORMED UNDER A SEPARATE CONTRACT. ABILITY TO START THE DATA/POWER WORK IS DEPENDENT UPON THE STRUCTURAL WORK BEING COMPLETE. IT WILL BE INCUMBENT UPON THE STRUCTURAL PACKAGE CONTRACTOR TO FACILITATE ACCESS TO WORK SITE AS SOON AS PRACTICAL AND COORDINATE EFFORT WITH THE DATA/POWER CONTRACTOR. SEQUENCE OF WORK SHOULD BE PERFORMED AS SPECIFIED IN THE CONTRACT SPECIFICATIONS UNDER COLLABORATION.

SPECIAL INSPECTION TABLES

AISC 360, CHAPTER N REQUIRED QUALITY CONTROL, QUALITY ASSURANCE, AND NONDESTRUCTIVE TESTING FOR STRUCTURAL STEEL ELEMENTS FOR BUILDINGS AND OTHER STRUCTURES		
VERIFICATION AND INSPECTION	COMMENTS	AISC 360 REFERENCE
REVIEW MATERIAL TEST REPORTS AND CERTIFICATIONS LISTED IN AISC 360, SECTION N3.2. FOR COMPLIANCE WITH THE CONSTRUCTION DOCUMENTS.	-	SECTION N3.2
INSPECT THE ERECTED STEEL TO VERIFY COMPLIANCE WITH DETAILS ON THE CONSTRUCTION DOCUMENTS: a. STIFFENERS. b. MEMBER LOCATIONS. c. PROPER APPLICATION OF JOINT DETAILS AT EACH CONN.	-	-
INSPECTION TASKS PRIOR TO WELDING	-	TABLE N5.4-1
INSPECTION TASKS DURING WELDING	-	TABLE N5.4-2
INSPECTION TASKS AFTER WELDING	-	TABLE N5.4-3
NONDESTRUCTIVE TESTING OF WELDED JOINTS	-	SECTION N5.5
INSPECTION TASKS PRIOR TO BOLTING	-	TABLE N5.6-1
INSPECTION TASKS DURING BOLTING	-	TABLE N5.6-2
INSPECTION TASKS AFTER BOLTING	-	TABLE N5.6-3

SUBMITTALS

SHOP DRAWINGS: SUBMIT SHOP DRAWINGS FOR REVIEW AND ACCEPTANCE BY THE OWNER'S REPRESENTATIVE ENGINEER PRIOR TO ANY FABRICATION OR CONSTRUCTION. DIMENSION AND QUANTITY VERIFICATION ARE THE CONTRACTOR'S RESPONSIBILITIES AND ARE NOT REVIEWED BY THE OWNER'S REPRESENTATIVE ENGINEER. THE CONTRACTOR SHALL REVIEW AND STAMP DRAWINGS PRIOR TO REVIEW BY THE OWNER'S REPRESENTATIVE ENGINEER. IF DEVIATIONS, DISCREPANCIES, OR CONFLICTS BETWEEN SHOP DRAWING SUBMITTALS AND THE CONTRACT DOCUMENTS ARE DISCOVERED, EITHER PRIOR TO OR AFTER THE ENGINEER PROCESSES THE SHOP DRAWING SUBMITTALS, THE DESIGN DRAWINGS AND SPECIFICATIONS SHALL CONTROL AND SHALL BE FOLLOWED.

REQUIRED SUBMITTALS: REQUIRED SUBMITTALS INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING:

- BIDDER-DESIGNED SUBMITTALS
- STRUCTURAL STEEL
- CONCRETE REINFORCING
- CONCRETE MIX DESIGN

BIDDER-DESIGNED SUBMITTALS: CALCULATIONS AND SHOP DRAWINGS FOR ELEMENTS DESIGNED BY THE CONTRACTOR OR VENDORS SHALL BEAR THE SEAL AND SIGNATURE OF A PROFESSIONAL ENGINEER, RETAINED BY THE CONTRACTOR AND REGISTERED IN STATE OF THE PROJECT SITE. SUBMIT THESE DOCUMENTS FOR REVIEW AND ACCEPTANCE BY THE ENGINEER AND OWNER'S REPRESENTATIVE PRIOR TO FABRICATION. INCLUDE ALL DESIGN LOAD AND REACTIONS ON OTHER STRUCTURES ON THE DRAWINGS. CALCULATIONS SHALL BE SUBMITTED FOR INFORMATION ONLY AND WILL NOT BE REVIEWED OR RETURNED. BIDDER-DESIGNED SUBMITTALS INCLUDE THE FOLLOWING CONTRACTOR/VENDOR DESIGNED ELEMENTS. DEFERRED SUBMITTALS ARE INDICATED WITH AN ASTERISK:

- * PRE-MANUFACTURED LIGHT POLES

SUBMITTAL ACCEPTANCE: FOLLOWING ACCEPTANCE BY THE OWNER'S REPRESENTATIVE ENGINEER AND PRIOR TO FABRICATION, ADDITIONAL TIME FOR REVIEW AND ACCEPTANCE OF SUBMITTAL BY THE BUILDING OFFICIAL IS REQUIRED AND SHALL BE IDENTIFIED AND ALLOWED FOR IN THE CONTRACTOR'S SCHEDULE.

SUBSTITUTIONS: SUBMIT SUBSTITUTION REQUESTS PER THE PROCEDURES IN THE SPECIFICATIONS WITH APPLICABLE ICC REPORTS TO THE ARCHITECT AND STRUCTURAL ENGINEER FOR REVIEW AND APPROVAL PRIOR TO DETAILING, FABRICATION AND ERECTION. ADDITIONAL ENGINEERING CALCULATIONS AND DETAILS, PROVIDED BY A STRUCTURAL ENGINEER LICENSED IN THE PROJECT SITE STATE, MAY BE REQUIRED OF THE CONTRACTOR FOR SUBSTITUTIONS THAT ARE NOT SIMILAR TO THE SPECIFIED PRODUCTS AND CONFIGURATION.

STEEL

REFERENCE STANDARDS:

AISC AMERICAN INSTITUTE OF STEEL CONSTRUCTION, SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS, AISC 360

AWS AMERICAN WELDING SOCIETY, STRUCTURAL WELDING CODE - STEEL, AWS D1.1 AND STRUCTURAL WELDING CODE - SHEET STEEL, AWS D1.3

RCSC RESEARCH COUNCIL ON STRUCTURAL CONNECTIONS, SPECIFICATION FOR STRUCTURAL JOINTS USING HIGH STRENGTH BOLTS

STRUCTURAL STEEL MATERIALS:

- WIDE FLANGE SHAPES ASTM A992, Fy = 50 KSI
- HOLLOW STRUCTURAL SECTIONS (HSS) TUBES ASTM A500, GRADE B, Fy = 46 KSI
- OTHER STEEL SHAPES ASTM A36, Fy = 36 KSI
- STRUCTURAL BOLTS ASTM A325 OR A490
- ANCHOR BOLTS ASTM F1554, GRADE 36
- WELDING ELECTRODES E70XX

MISC STEEL: STRUCTURAL STEEL DESIGN, FABRICATION AND ERECTION SHALL CONFORM TO THE REQUIREMENTS OF THE AISC CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ERECTION AIDS AND JOINT PREPARATIONS THAT INCLUDE, BUT ARE NOT LIMITED TO, ERECTION ANGLES, LIFT HOLES AND OTHER AIDS, WELDING PROCEDURES, REQUIRED ROOT OPENINGS, ROOT FACE DIMENSIONS, GROOVE ANGLES, BACKING BARS, COPES, SURFACE ROUGHNESS VALUES, AND TAPERS OF UNEQUAL PARTS.

HIGH-STRENGTH BOLTS: HIGH-STRENGTH BOLTS SHALL BE INSTALLED, TIGHTENED AND INSPECTED IN ACCORDANCE WITH THE AISC SPECIFICATION FOR STRUCTURAL JOINTS USING HIGH-STRENGTH BOLTS. THE CRITERIA FOR PRETENSIONED CONNECTIONS SHALL APPLY TO CONNECTIONS UNLESS SPECIFICALLY NOTED AS SNUG TIGHT. BOLT HOLES SHALL BE STANDARD SIZE UNLESS NOTED OTHERWISE.

STEEL (cont)

WELDING: WELDING SHALL BE IN CONFORMANCE WITH AISC AND AWS STANDARDS AND SHALL BE PERFORMED BY AWS/WABO CERTIFIED WELDERS, WHO ARE QUALIFIED FOR THE WELD TYPE THEY PERFORM, USING E70XX ELECTRODES. ONLY PREQUALIFIED WELDS (AS DEFINED BY AWS) SHALL BE USED. WELDS SHOWN ON THE DRAWINGS ARE THE MINIMUM SIZE. INCREASE WELD SIZE TO AWS MINIMUM SIZES BASED ON PLATE THICKNESS. MINIMUM WELDING SHALL BE 3/16 INCH. SHOP DRAWINGS SHALL SHOW ALL WELDING WITH AWS A2.4 SYMBOLS.

SURFACE PREPARATION PRIOR TO WELDING: ALL SURFACES SHALL BE CLEANED WITH A WIRE BRUSH, GRINDER, OR SAND BLASTING ENSURE A CLEAN SURFACE FREE OF PAINT OR RUST PRIOR TO WELDING.

MATERIAL FINISHES

MATERIAL AND PAINT COLORS SHALL BE CONSISTENT WITH SYSTEM-WIDE IDENTITY COLORS, COMPATIBLE WITH SURROUNDING AREA. COLOR-MATCH TOUCH UP PAINT WITH EXISTING CONDITIONS.

ALL VISIBLE STEEL AND ALUMINUM ASSEMBLIES SHALL RECEIVE AN ARCHITECTURAL FINISH TO MEET OR EXCEED PERFORMANCE CRITERIA OF ADJACENT EXISTING STATION ASSEMBLIES. FINISH SHALL BE ORGANIC COATING SYSTEM PER SOUND TRANSIT DCM SECTION 9.4.7 AND CONSIST OF A WASH PRIMER (FOR GALVANIZED AND ALUMINUM SUBSTRATES ONLY), A PRIMER, INTERMEDIATE COAT(S), AND A FINISH COAT.

ALL CARBON AND ALLOY STEEL ASSEMBLIES, FIXTURES AND CONDUITS WHICH DO NOT RECEIVE AN ARCHITECTURAL FINISH, SHALL BE HOT DIP GALVANIZED.

ALL STEEL AND ALUMINUM STRUCTURES WITHIN 16-FT OF THE GROUND IN PUBLIC AREAS SHALL HAVE ALL WELDS GROUND SMOOTH, EXPOSED EDGES GROUND, PIECE MARKS HIDDEN, AND ERECTION AIDS REMOVED.

PROVIDE WEEP HOLES AT LOW SPOTS OF ALL TUBE OR PIPE STEEL FOR DRAINAGE OF CONDENSATION.

FABRICATION OF THE CONNECTIONS BETWEEN STEEL AND OTHER MATERIALS SHALL PROVIDE FOR THE PERMITTED STEEL VARIANCE AND PROVIDE FOR THE MORE LIMITED TOLERANCE OF THE FINISH MATERIAL BY MEANS FOR SPACE AND ATTACHMENT SUCH THAT PLUMB AND TRUE FINISHES CAN BE PROVIDED.

WHENEVER POSSIBLE, FINISHING OF STEEL IN THE FIELD SHALL BE MINIMIZED AND SHOP FABRICATED IN SECTIONS, PRIMED AND FINISHED IN THE SHOP, AND BOLTED TOGETHER ON SITE. MINIMIZE ON-SITE WELDING AND TOUCH UP PAINTING WHENEVER POSSIBLE. ALL FINISHING SHALL BE COMPATIBLE, WHETHER SHOP PRIMED AND PAINTED OR PRIMED IN SHOP AND FIELD PAINTED.

OTHER THAN STAINLESS STEEL, ALL METALS AND ALUMINUM SHALL BE ISOLATED AND SEPARATED FROM CONCRETE AND OTHER DISSIMILAR METALS TO PREVENT CORROSION.

SEALANTS - SEAL ALL CREVICES WITH A POLYSULFIDE, POLYURETHANE, OR SILICONE SEALANT.

ELECTRICAL CONDUIT AND RECEPTACLES

ELECTRICAL CONDUITS, JUNCTION BOXES AND APPURTENANCES REQUIRED TO SUPPORT THE ELECTRICAL SYSTEM AT STATIONS SHALL BE HIDDEN FROM PUBLIC VIEW BY LOCATING THEM IN AN ORGANIZED MANNER WITHIN RACEWAYS, CABLE TRAYS OR CHASES. WHENEVER POSSIBLE, NO CONDUIT SHALL BE INSTALLED EXPOSED TO VIEW IN PUBLIC AREAS OF THE STATIONS. WHERE CONDUITS SHALL BE EXPOSED TO PUBLIC VIEW TO CONNECT TO EQUIPMENT OR FIXTURES, THE CONDUIT AND ANY JUNCTION BOXES SHALL BE LOCATED IN AN ORGANIZED MANNER, TIGHT TO ADJACENT SURFACES AND PAINTED TO MATCH THOSE SURFACES. WHERE CONDUITS ARE EXPOSED IN PUBLIC OR NON-PUBLIC AREAS OUTSIDE OF CLOSED ROOMS, PROVIDE BIRD DETERRENT DEVICES. MAINTAIN SEPARATION OF POWER AND DATA SYSTEMS IN CONDUIT.

CONCRETE

REFERENCE STANDARDS:

ACI AMERICAN CONCRETE INSTITUTE, BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE, ACI 318-14

CONCRETE SHALL BE MIXED, PROPORTIONED, CONVEYED, AND PLACED IN ACCORDANCE WITH IBC SECTION 1905 AND ACI 301.

MIX DESIGNS: MIX DESIGNS SHALL BE SUBMITTED TO THE OWNER'S REPRESENTATIVE AND STRUCTURAL ENGINEER FOR ACCEPTANCE TWO WEEKS PRIOR TO PLACING ANY CONCRETE. THE MAXIMUM WATER-CEMENT RATIO AND SLUMP SHALL BE AS SHOWN IN TABLE I FOR VARIOUS CONCRETE STRENGTHS (fc) BASED ON STANDARD 28-DAY CYLINDER TESTS.

CONCRETE MIX DESIGNS TABLE						
AREA	MIN F'c (PSI) 28 DAYS	MAX W/C RATIO	ENTRAINED AIR	FLY ASH	MAXIMUM AGGREGATE	EXPOSURE CLASS
SLABS ON GRADE (EXTERIOR)	5,000	0.40	6%	15-20%	3/4"	F3

ADMIXTURES: WATER-REDUCING ADMIXTURES CONFORMING TO ASTM C494 MAY BE INCORPORATED IN THE CONCRETE MIX DESIGNS AND BE USED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. CALCIUM CHLORIDE OR OTHER WATER-SOLUBLE CHLORIDE ADMIXTURES SHALL NOT BE USED.

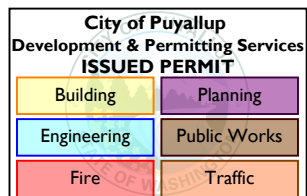
AIR CONTENT: AN AIR-ENTRAINING AGENT CONFORMING TO ASTM C260 SHALL BE USED IN ALL CONCRETE MIXES FOR WORK THAT IS EXPOSED TO WEATHER. THE AMOUNT OF ENTRAINED AIR SHALL BE MEASURED IN THE FIELD AT THE DISCHARGE END OF THE PLACING HOSE. ENTRAINED AIR SHALL BE AS NOTED +/- 1.5% BY VOLUME.

NON-SHRINK GROUT: NON-SHRINK GROUT SHALL BE FURNISHED BY AN APPROVED MANUFACTURER AND SHALL BE MIXED AND PLACED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. THE MINIMUM 28-DAY GROUT COMPRESSIVE STRENGTH SHALL BE 5000 PSI, UNLESS NOTED OTHERWISE.

ADHESIVE ANCHORS AND EPOXIED REINFORCING BARS: PLACEMENT AND CURING SHALL BE CONDUCTED WITH CONCRETE AND AIR TEMPERATURES ABOVE 50 DEGREES. APPLY EPOXY ONLY TO CLEAN, DRY CONCRETE. PROVIDE POSITIVE PROTECTION SO DOWELS ARE NOT DISTURBED DURING THE CURING PERIOD.

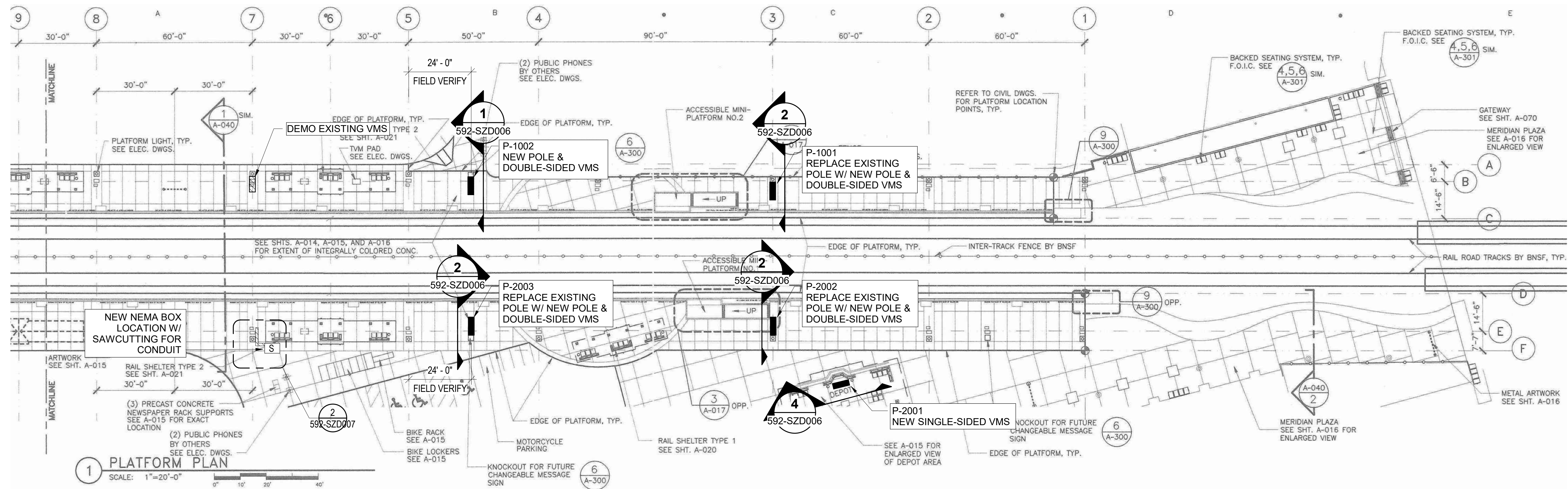
STAINLESS STEEL ADHESIVE ANCHORS SHALL BE EPOXIED INTO CONCRETE WITH HILTI RE-500 ADHESIVE, OR APPROVED EQUIVALENT. INSTALLATION SHALL BE IN STRICT ACCORDANCE WITH ICC REPORT ESR-3814. ADHESIVE ANCHOR RODS SHALL BE ASTM F593 TYPE 316 STAINLESS STEEL THREADED RODS, OR APPROVED EQUIVALENT.

POST-INSTALLED DRILLING: HOLES FOR INSTALLING REINFORCING BARS, BOLTS, THREADED RODS AND INSERTS INTO CONCRETE SHALL BE DRILLED BY THE ICC APPROVED DRILLING METHOD FOR THE ANCHOR. PROVIDE NON-DESTRUCTIVE SCANNING OR CHIP AWAY A SUFFICIENT QUANTITY OF CONCRETE COVER TO LOCATE EXISTING REINFORCING PRIOR TO DRILLING. DO NOT CUT EXISTING REINFORCING. HOLES SHALL BE DRILLED WITH ROTARY IMPACT HAMMER OR EQUIVALENT METHOD TO PRODUCE A HOLE WITH A ROUGH INSIDE SURFACE. CORE DRILLING HOLES IS NOT PERMITTED.

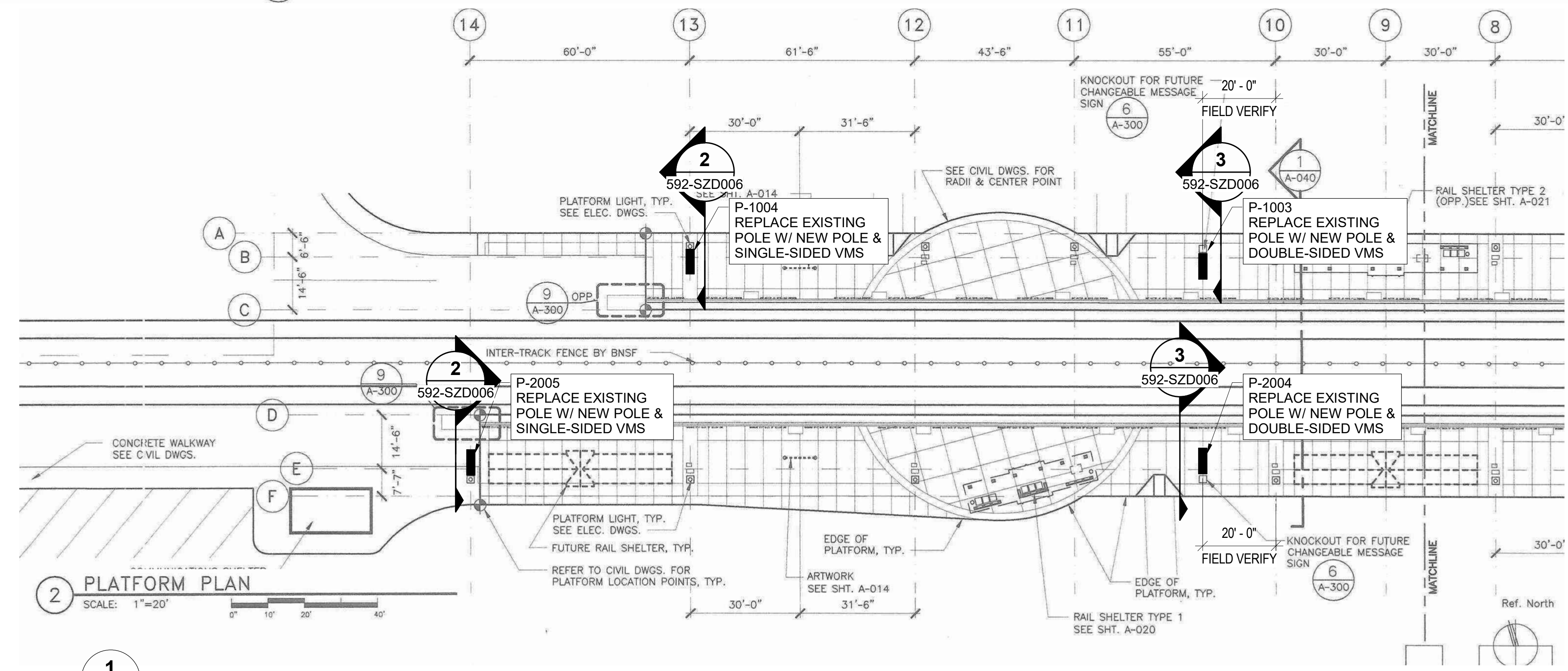


1/17/2022 11:31:55 AM C:\Users\jstephens\Documents\2019.116.4 - PIMS Rv2020_MLA_JStephens.rvt

<h1>PERMIT SET</h1>						DESIGNED BY: J STEPHENS DRAWN BY: J STEPHENS CHECKED BY: A EVERSMAN APPROVED BY: A EVERSMAN		 MLA ENGINEERING 1424 Fourth Ave, Suite 415 Seattle, WA 98101 (206) 264-2727 www.mlaengineering.com MLA project #: 2019.116.4		ELECTRICAL PE STAMP IS APPLICABLE TO ELECTRICAL CONTENT ONLY.	LINE IS 1" AT FULL SCALE		SCALE: 12" = 1'-0" FILENAME: 592-SZN004 CONTRACT No.: RTA/CN 0072-21 SUBMITTAL DATE: 01/17/2022	<h2 style="text-align: center;">SOUND TRANSIT COMMUTER RAIL</h2> <h3 style="text-align: center;">PIMS SOUNDER CIVIL WORK</h3> <p style="text-align: center;">TASK ORDER 40.00</p> <p style="text-align: center;">STRUCTURAL STRUCTURAL NOTES PUYALLUP STATION</p>	DRAWING No.: 592-SZN004 FACILITY ID: 592 SHEET No.: REV: 42
No.	DATE	DSN	CHK	APP	REVISION										



1 PLATFORM PLAN
SCALE: 1"=20'-0"



2 PLATFORM PLAN
SCALE: 1"=20'-0"

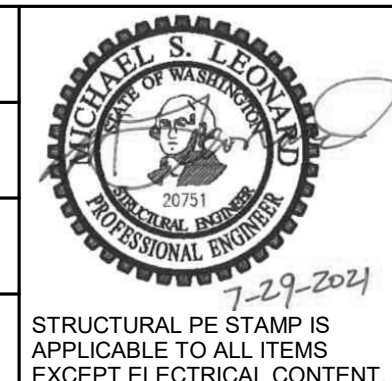
NOTES:
1. AS-BUILT BACKGROUND INFORMATION SHOWN IS APPROXIMATE. INFORMATION SHOWN IS FOR LOCATING VMS SIGNS ONLY.

PLATFORM PLAN

SCALE: 3/64" = 1'-0"

PERMIT SET

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J STEPHENS
DRAWN BY:
J STEPHENS
CHECKED BY:
A EVERSMAN
APPROVED BY:
A EVERSMAN



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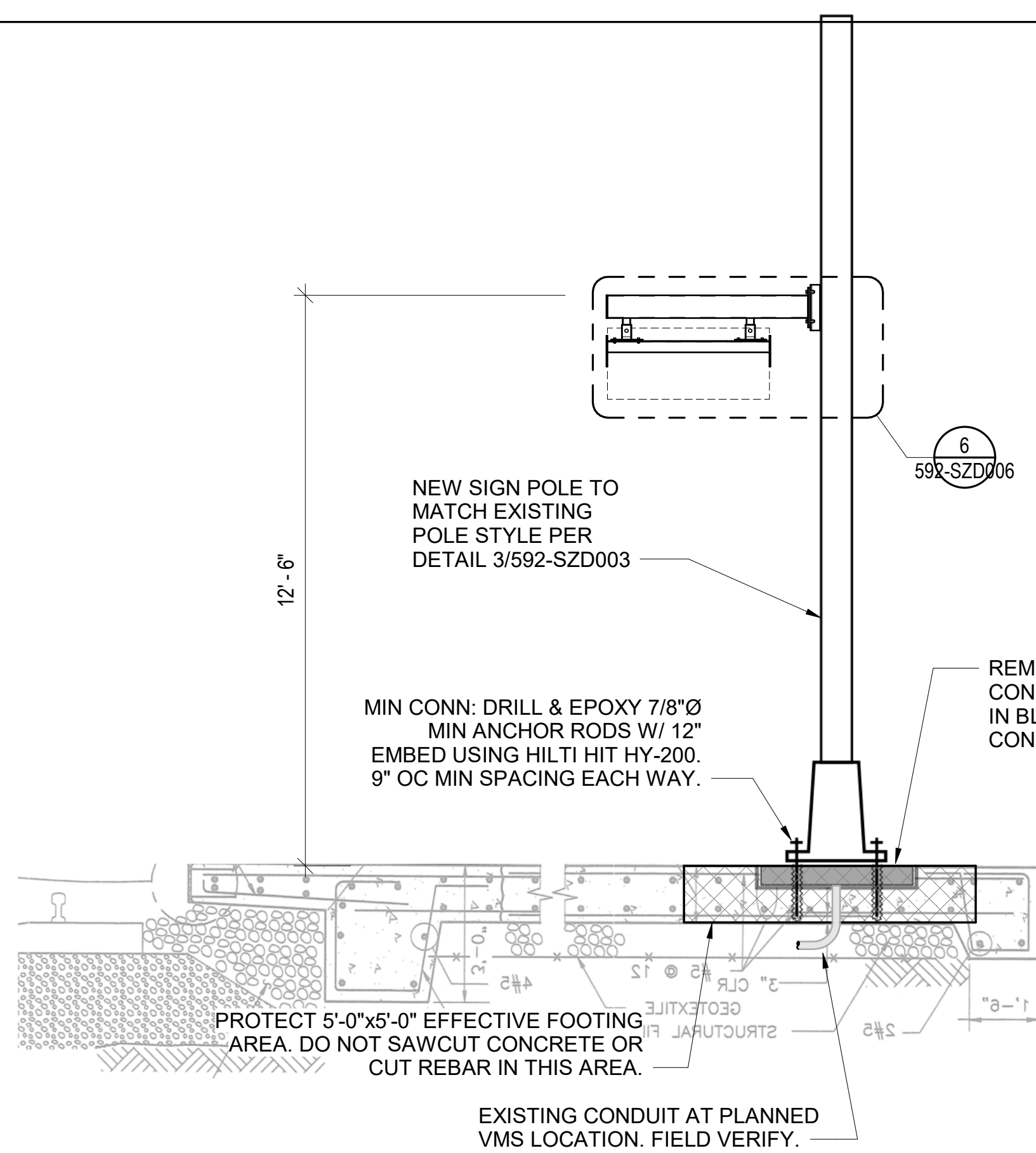


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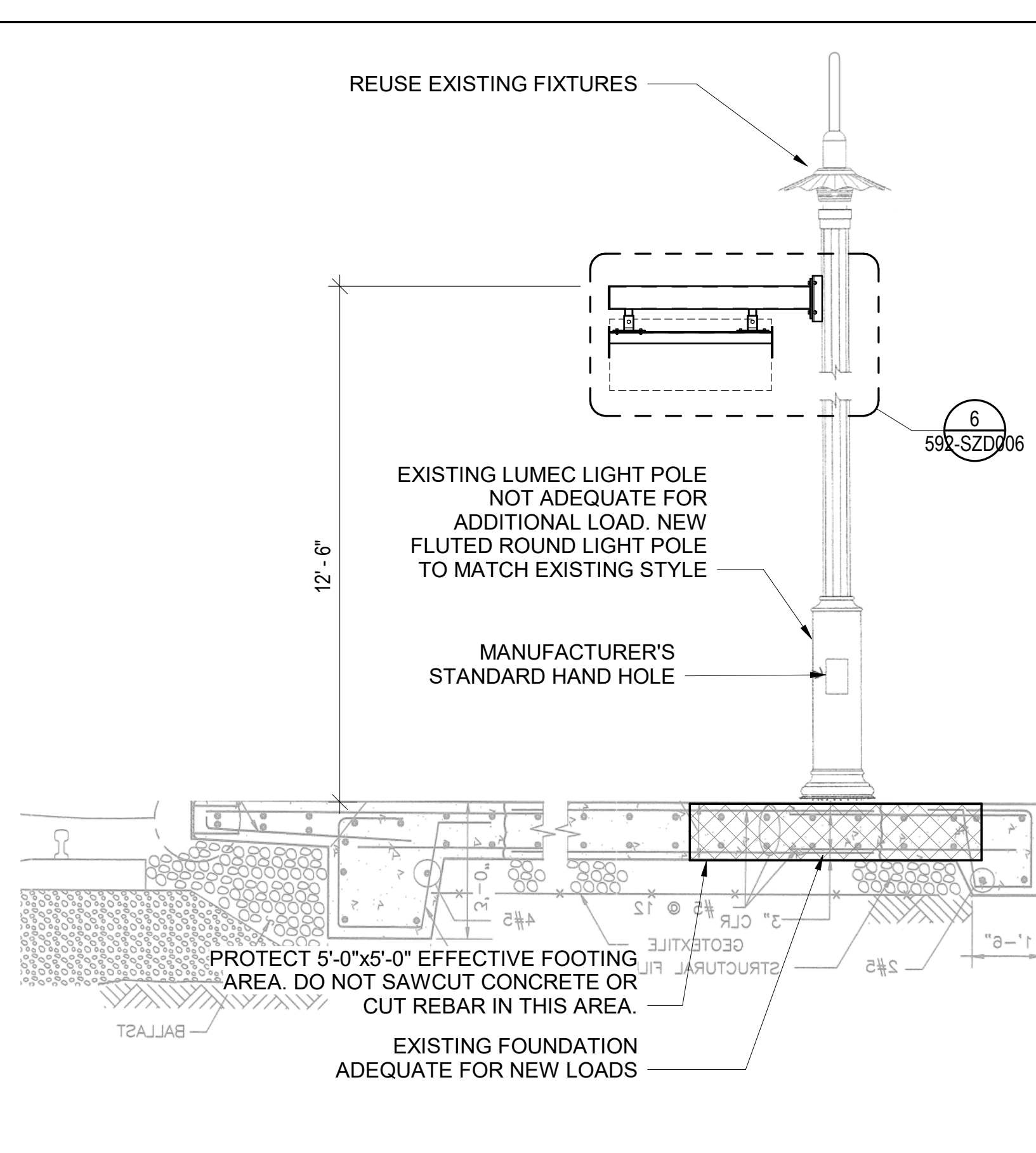
SCALE:
As indicated
FILENAME:
592-SFP005
CONTRACT No.:
RTA/CN 0072-21
SUBMITTAL DATE:
01/17/2022

SOUND TRANSIT COMMUTER RAIL
PIMS SOUNDER CIVIL WORK
TASK ORDER 40.00
STRUCTURAL
PLATFORM PLAN
PUYALLUP STATION

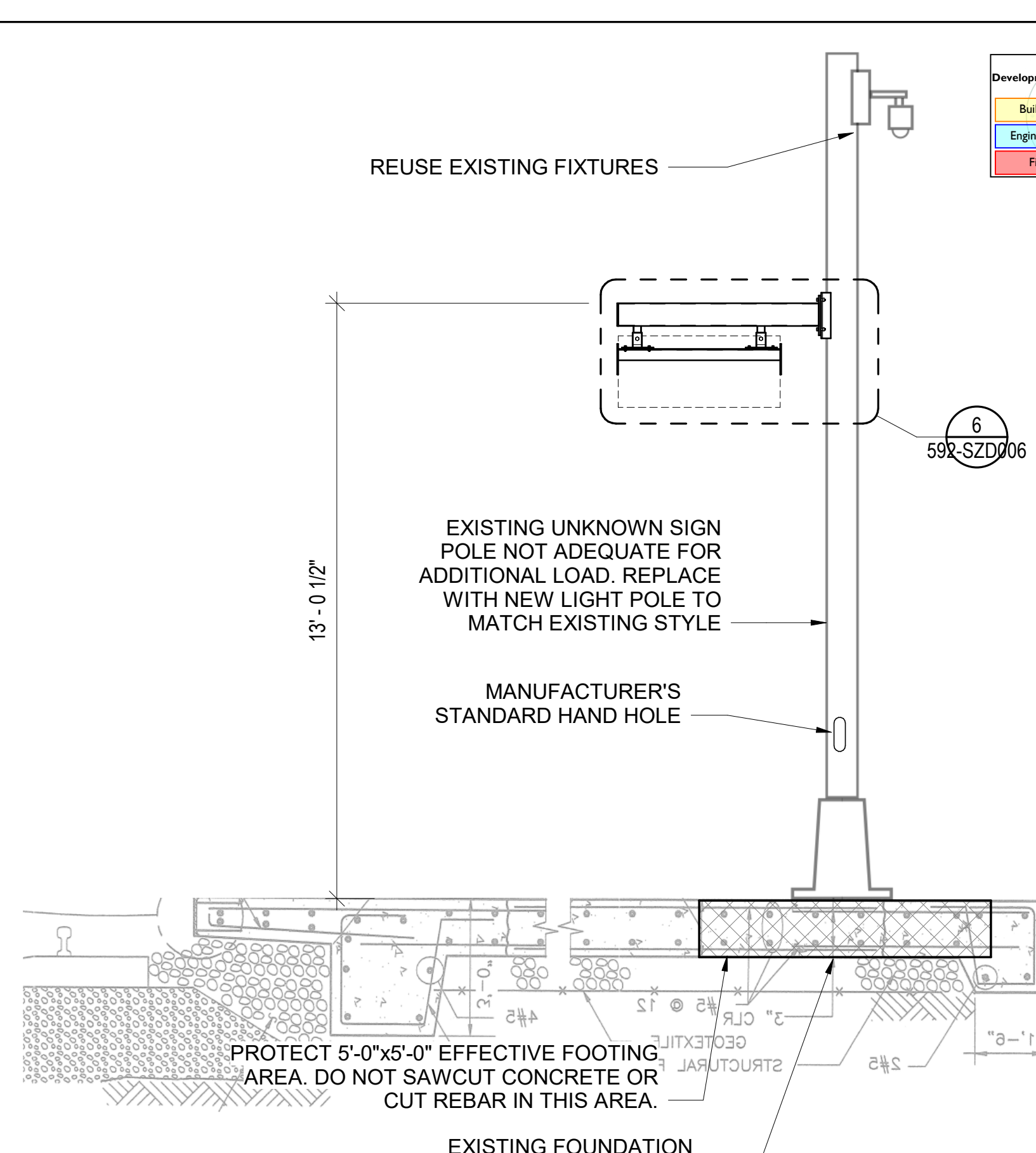
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FACILITY ID:
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SHEET No.:
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REV:



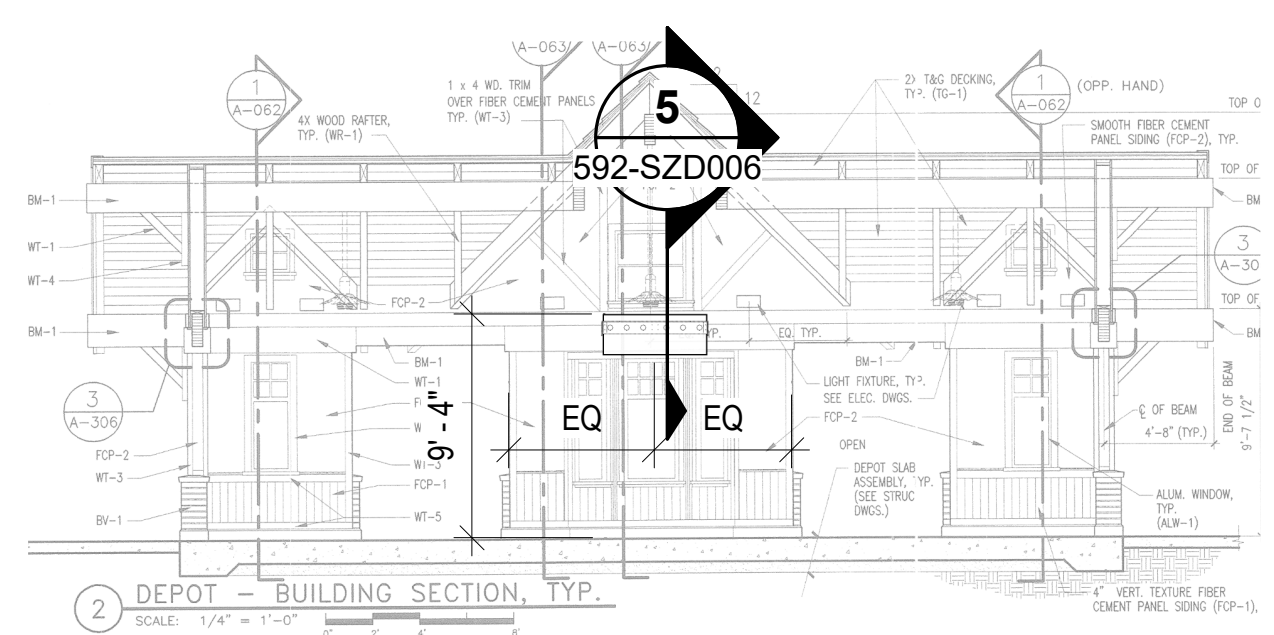
DETAIL 1
SCALE: 3/8" = 1'-0"
592-SFP005



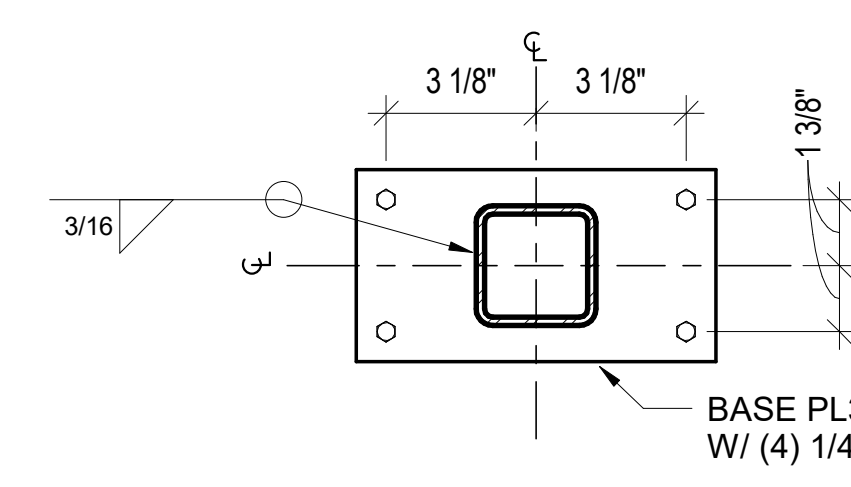
DETAIL 2
SCALE: 3/8" = 1'-0"
592-SFP005



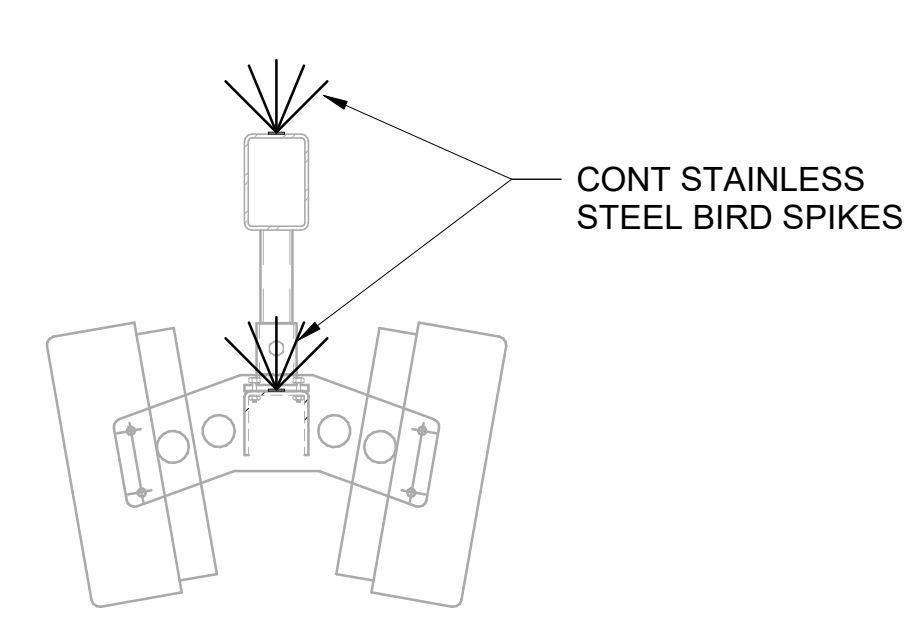
DETAIL 3
SCALE: 3/8" = 1'-0"
592-SFP005



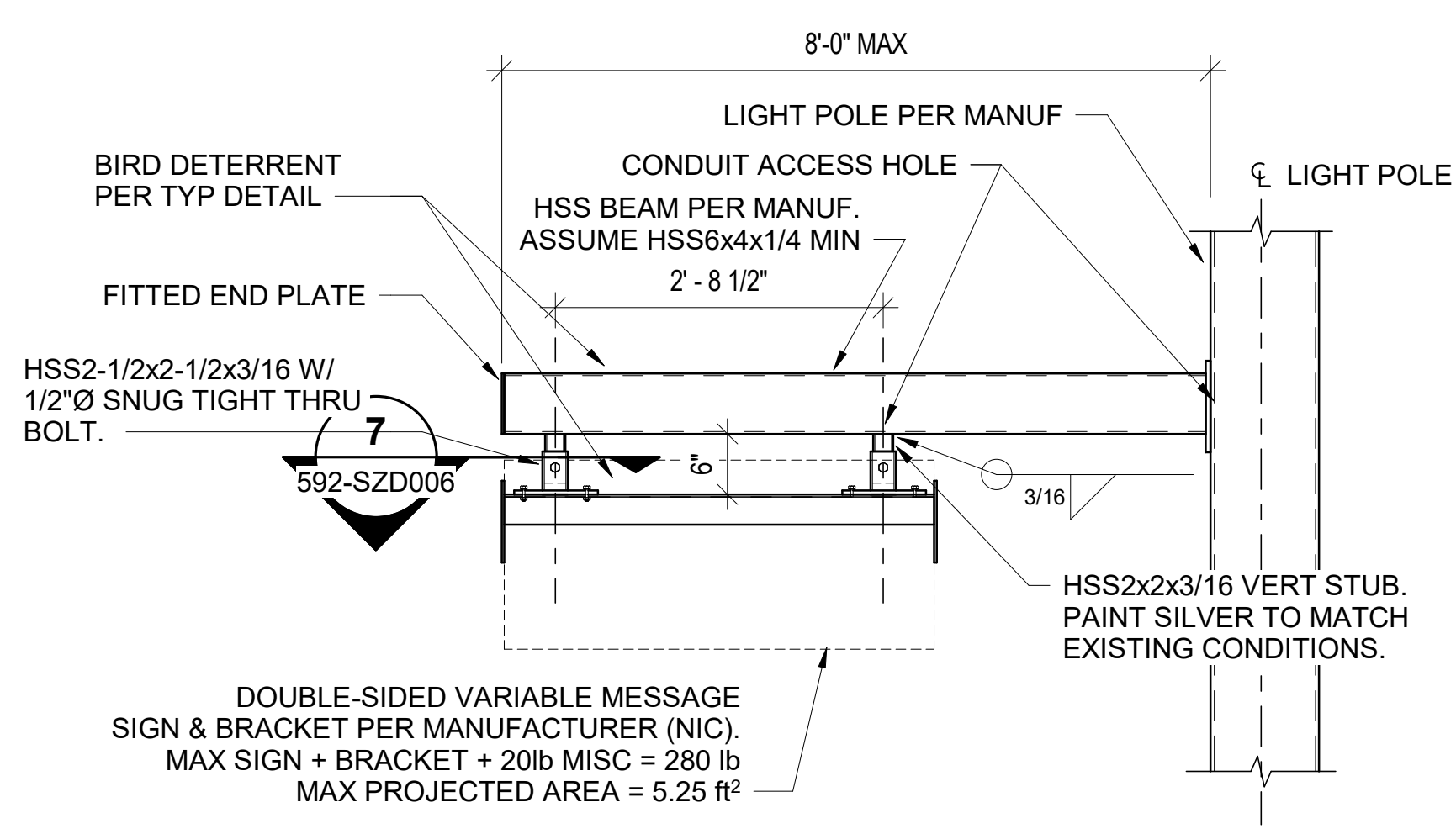
DETAIL 4
SCALE: 1/8" = 1'-0"
592-SFP005



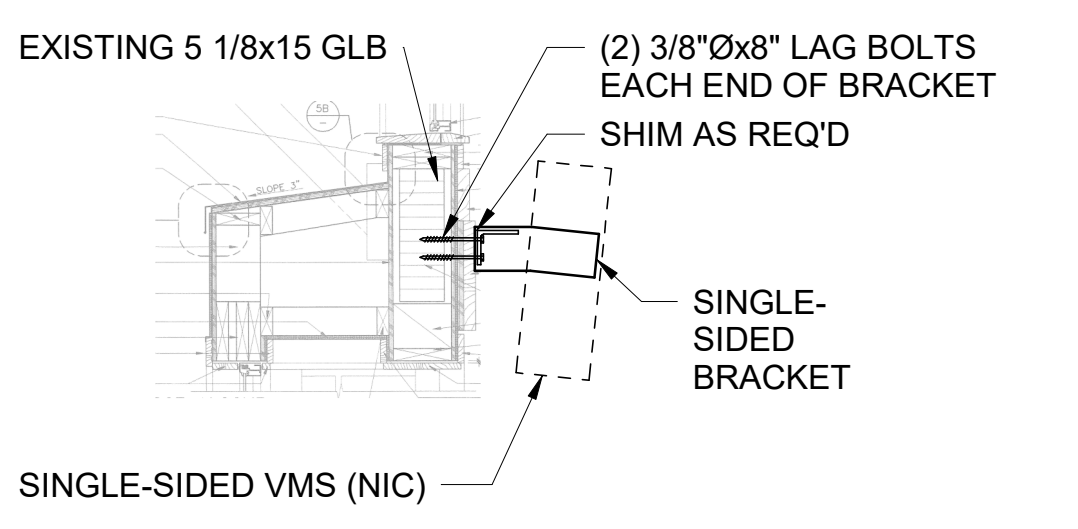
DETAIL 7
SCALE: 3" = 1'-0"
592-SZD006



DETAIL 8
SCALE: 1" = 1'-0"
592-SZD006



DETAIL 6
SCALE: 3/4" = 1'-0"
592-SZD006



DETAIL 5
SCALE: 3/8" = 1'-0"
592-SZD006

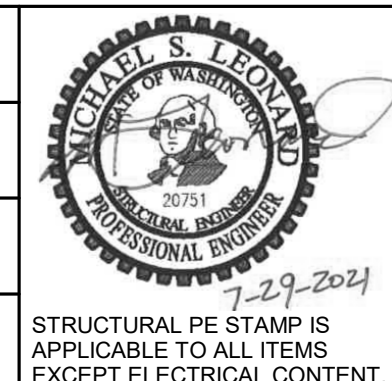
PUYALLUP STATION SIGN SCHEDULE								
STATION	SIGN ID	DISPLAY SIDES	MOUNTING TYPE	EXISTING SIGN LOC (NOTE 1)	REINSTALL EXISTING FIXTURES ON NEW POLE	SPEC 26 56 13 LIGHT POLE ASSEMBLIES	COMMENT	
PUYALLUP	P-1001	SINGLE	NEW ARM ON REPLACEMENT POLE	NO	ORCA READER, SPEAKERS	X		
PUYALLUP	P-1002	DOUBLE	NEW ARM AND POLE	NO		X		
PUYALLUP	P-1003	DOUBLE	NEW ARM ON REPLACEMENT POLE	YES	CAMERAS	X		
PUYALLUP	P-1004	SINGLE	NEW ARM ON REPLACEMENT POLE	NO	CAMERAS	X		
PUYALLUP	P-2001	SINGLE	OVERHEAD TO KIOSK STRUCTURE	NO				
PUYALLUP	P-2002	DOUBLE	NEW ARM ON REPLACEMENT POLE	NO	ORCA READER	X		
PUYALLUP	P-2003	DOUBLE	NEW ARM ON REPLACEMENT POLE	YES		X		
PUYALLUP	P-2004	DOUBLE	NEW ARM ON REPLACEMENT POLE	YES	CAMERAS	X		
PUYALLUP	P-2005	SINGLE	NEW ARM ON REPLACEMENT POLE	NO	CAMERAS	X		
TOTAL EXISTING SIGNS				3				
TOTAL NEW SIGNS				9				

NOTE 1: INSTALLED AT CURRENT LOCATION OF EXISTING SIGN

PERMIT SET

1	11/11/2021	JS	AE	ML	ADDENDUM 1
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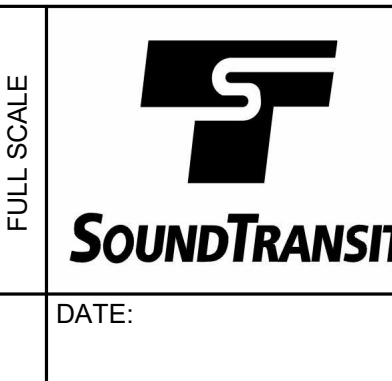
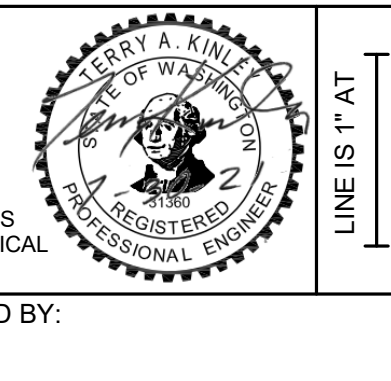
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J STEPHENS
DRAWN BY:
J STEPHENS
CHECKED BY:
A EVERSMAN
APPROVED BY:
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DATE:

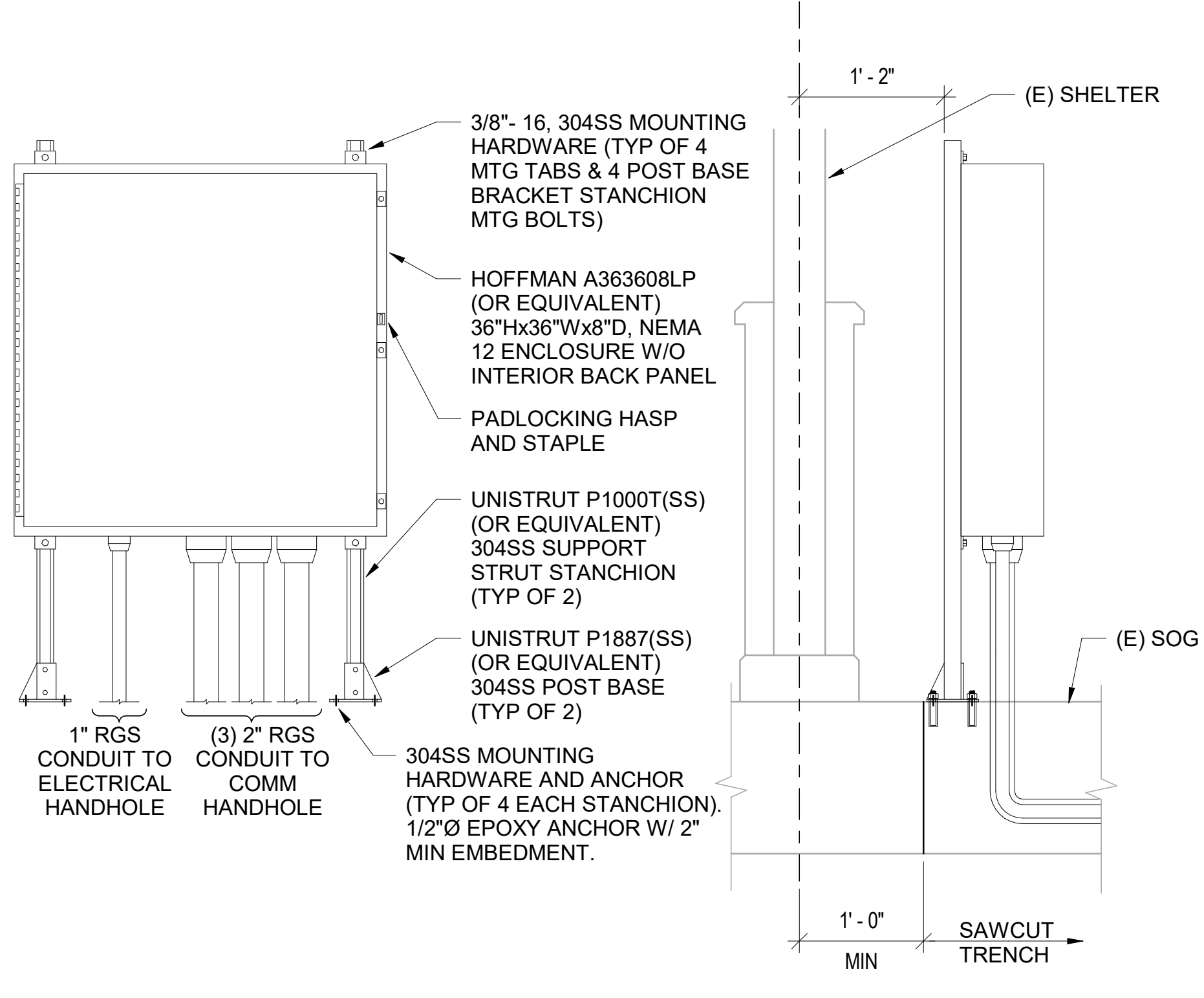
REVIEWED BY:
DATE:



SCALE:
As indicated
FILENAME:
592-SZD006
CONTRACT No.:
RTA/CN 0072-21
SUBMITTAL DATE:
01/17/2022

SOUND TRANSIT COMMUTER RAIL
PIMS SOUNDER CIVIL WORK
TASK ORDER 40.00
STRUCTURAL
STRUCTURAL DETAILS
PUYALLUP STATION

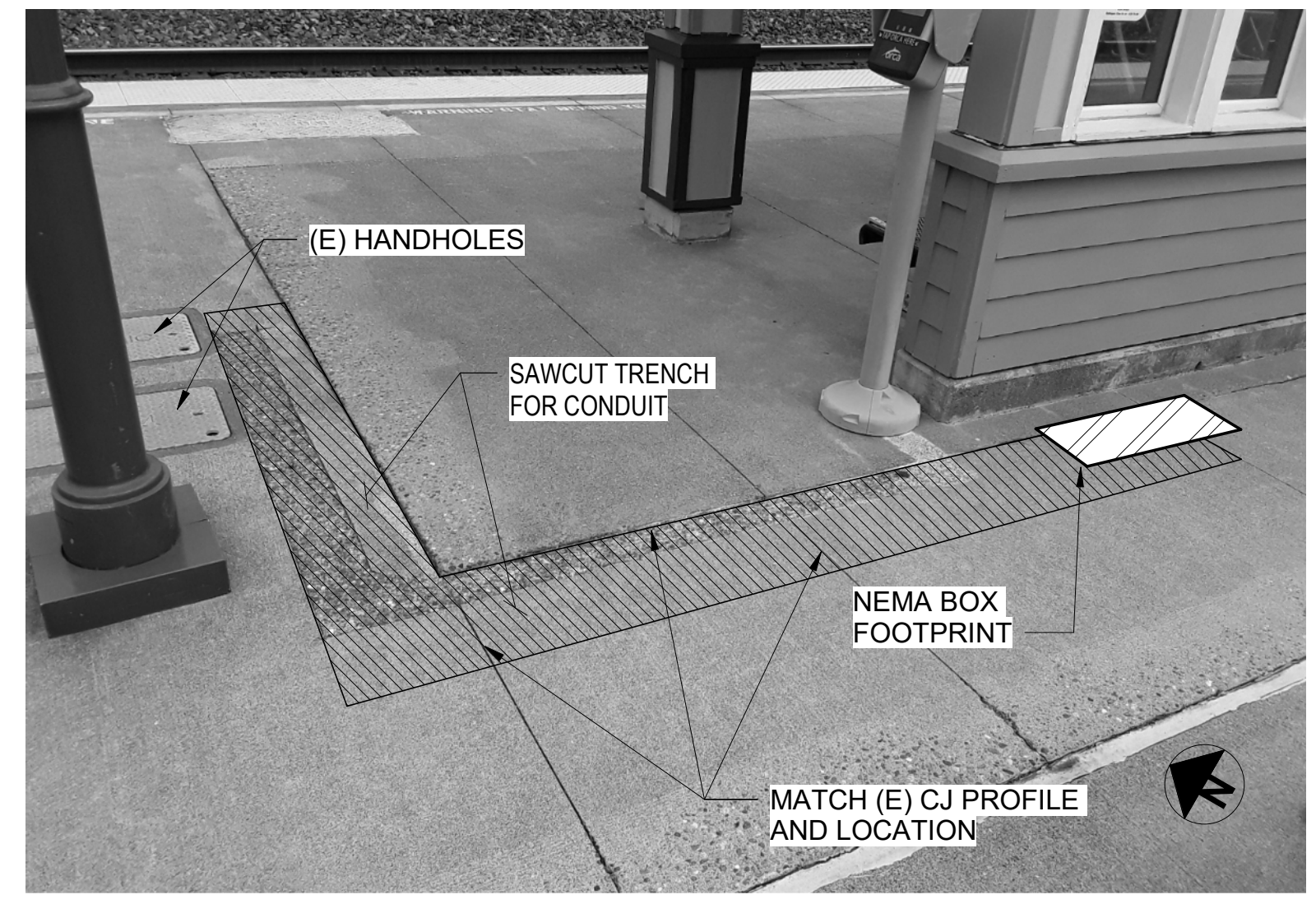
DRAWING No.:
592-SZD006
FACILITY ID:
592
SHEET No.:
44
REV:
1



NEMA BOX DETAIL

SCALE: 1" = 1'-0"

1

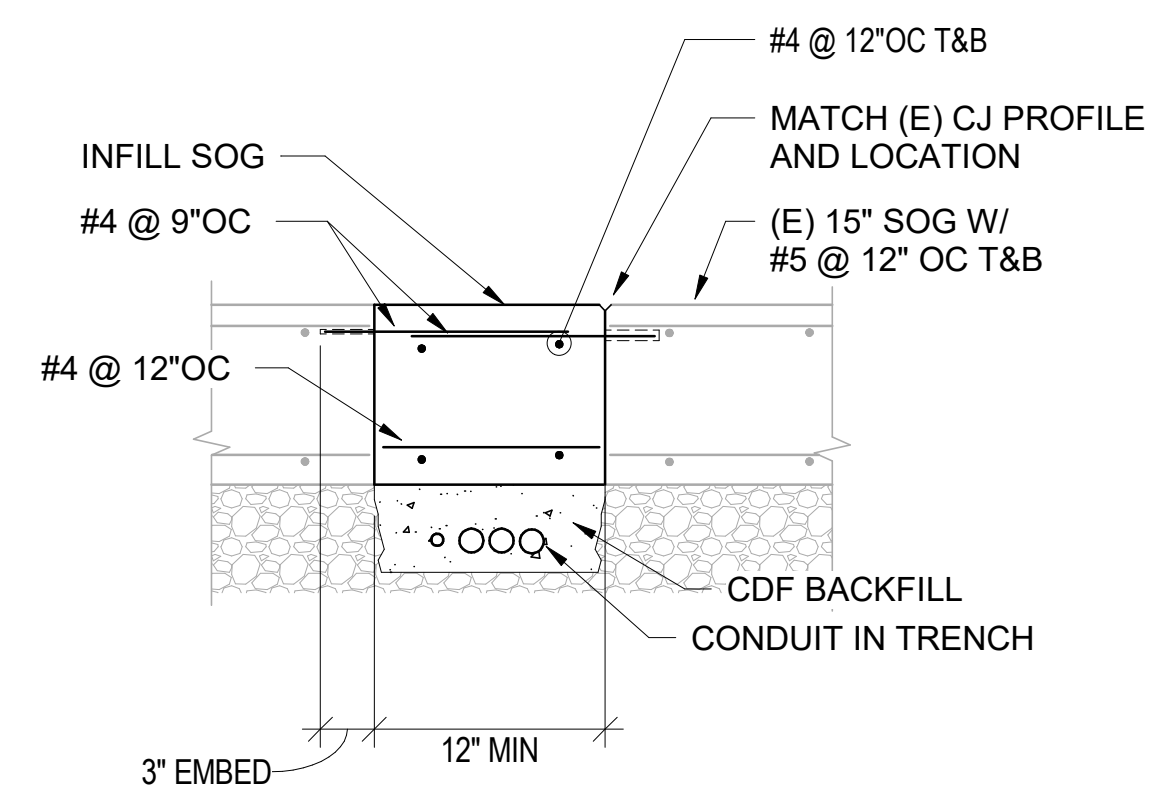


SAWCUT TRENCH LAYOUT

SCALE: 1 1/2" = 1'-0"

2

592-SFP005



SOG SAWCUT TRENCH DETAIL

SCALE: 3/4" = 1'-0"

3

- NOTES:
- REFER TO DEMOLITION SPECIFICATIONS FOR SCANNING REQ'S PRIOR TO SAWCUTTING.
 - DO NOT OVERCUT DEPTH AND CORNERS.

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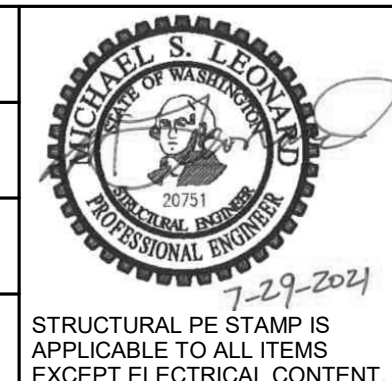
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STRUCTURAL PE STAMP IS APPLICABLE TO ALL ITEMS EXCEPT ELECTRICAL CONTENT.

DATE: _____

REVIEWED BY: _____

DATE: _____



LINE IS 1" AT FULL SCALE

SOUNDTRANSIT

SCALE:
As indicated

FILENAME:
592-SZD007

CONTRACT No.:
RTA/CN 0072-21

SUBMITTAL DATE:
01/17/2022

SOUND TRANSIT COMMUTER RAIL
PIMS SOUNDER CIVIL WORK
TASK ORDER 40.00

STRUCTURAL
STRUCTURAL DETAILS
PUYALLUP STATION

DRAWING No.:
592-SZD007

FACILITY ID:
592

SHEET No.:
45

REV:

No.	DATE	DSN	CHK	APP	REVISION