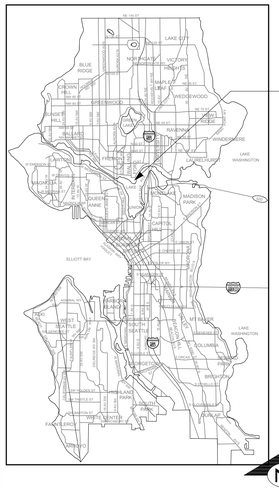


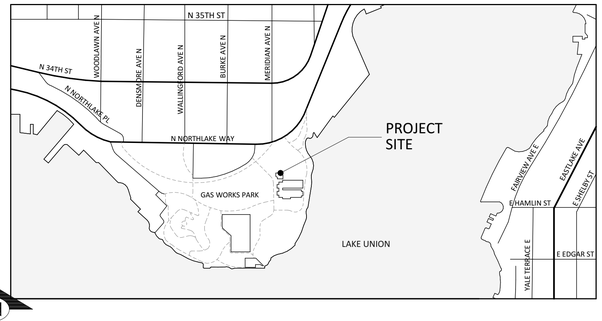
VICINITY MAP
CITY OF SEATTLE - NOT TO SCALE

GAS WORKS PARK

Project Address
2101 N Northlake Way
Seattle, WA

LEGAL DESCRIPTION

BURKES 1ST ADD ALL BLKS 1 & 2 4 THRU 6 & 9 THRU 11 ALSO BLKS 42 THRU 44 LAKE UNION SHORELANDS ALSO BLK 3 LLEWELLYN'S SUPL BLK 3 BURKES 1ST ALSO BLK 43A LAKE UNION SD LDS 2ND SUPL TGW POR VAC STS ADJ LESS ST & TGW POR VAC N NORTHLAKE PL ADJ AS VAC BY SEATTLE ORD NO 112955



LOCATION MAP

Gas Works Park
Comfort Station & East Entry / ADA

Parks Specification # 2055 PW # 2019-029 Project # PRK000000-00
Funding Source: Seattle Parks District/Other Funding Source
GW CS - 124590 - 2008 PLF
SDOT Sidewalk – 125207 – REET 1
East Entry/ADA – 125207 - REET I
Gas Works CS – PRK730192-02
Gas Works Park Start Design – PRK732434-06
Gas Works Sidewalk – PRK730309-04

Owner:
City of Seattle Department of Finance & Administrative Services,
City Purchasing & Contracting Services

Administering Department:
City of Seattle Department of Parks and Recreation, Planning & Development Division
300 Elliott Ave. W, Suite 100, Seattle, WA 98119
SPR Project Contact: Jay Rood, Capital Projects Coordinator, 206-733-9194

PROJECT TEAM

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TACOMA, WA 98402
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LANDSCAPE: BCRA
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PROPERTY OWNER

PROPERTY OWNER:
SEATTLE PARKS AND RECREATION

CONTACT/ PROJECT COORDINATOR:

JAY ROOD
CAPITAL PROJECTS COORDINATOR
CITY OF SEATTLE, SEATTLE PARKS AND RECREATION
T: 206-733-9194

PROPOSED WORK

CONSTRUCTION OF NEW EAST ENTRY ADA ACCESSIBLE PARKING, PATHWAY, PLAZA AND A NEW (4) STALL COMFORT STATION BUILDING.

PROPERTY NOTES

PROPERTY ADDRESS:
1901 N NORTHLAKE WAY,
SEATTLE, WA 98103

PARCEL NUMBER:
1249700005

PARCEL INFORMATION

ZONING:	IB U/45
PROPERTY NAME:	GASWORKS PARK
PROPERTY TYPE:	C
PRESENT USE:	PARK, PUBLIC
Q-S-T-R:	NE-19-25-4
WATER:	WATER DISTRICT
SEWER/SEPTIC:	PUBLIC
ROAD ACCESS:	PUBLIC
STREET SURFACE:	PAVED

CODE COMPLIANCE

2015 SEATTLE BUILDING CODE
2015 INTERNATIONAL ENERGY CONSERVATION CODE
2014 SEATTLE ELECTRICAL CODE
2015 INTERNATIONAL MECHANICAL CODE
2015 INTERNATIONAL FUEL GAS CODE
2015 INTERNATIONAL FIRE CODE
2015 ICC/ANSI A117.1
2015 UPC UNIFORM PLUMBING CODE
ALL LOCAL CODES AND ORDINANCES

CODE COMPLIANCE

SITE AREA:
820,153 SF

OCCUPANCY CLASSIFICATION:
UTILITY AND MISCELLANEOUS - GROUP U

TYPE OF CONSTRUCTION:
TYPE II-B - NON-SPRINKLERED

CLIMATE ZONE:
4C - 4 MARINE

BUILDING PERMIT

CITY OF SEATTLE PERMIT NO: 6799443-CN

NOTE: SEPARATE DEMOLITION PERMIT REQUIRED FOR DEMOLITION OF THE (E) COMFORT STATION

SHEET INDEX

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G0.00 TITLE SHEET

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P2.2 PLUMBING DETAILS
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E2.1 ONE-LINE DIAGRAM

>>>>CAUTION - CALL 811<<<<
UTILITY NOTIFICATION CENTER
BEFORE YOU DIG!
WWW.CALL811.COM

ALSO CONTRACT WITH A COMMERCIAL UNDERGROUND UTILITIES LOCATOR SERVICE TO IDENTIFY BELOW-GROUND INFRASTRUCTURE THAT MAY NOT BE LOCATED BY CALL 811 BEFORE-YOU-DIG.

NO.	REVISION - AS BUILT	DATE
3		
2		
1		

REVIEWED: _____ PARK ENGINEER _____ DATE

All work done in accordance with the City of Seattle Standard Plans and Specifications in effect on the date shown above, and supplemented by Special Provisions.

PATANO STUDIO ARCHITECTURE
603 STEWART ST., SUITE #500, SEATTLE, WA 98101
TEL: 206.734.3870 | WWW.PATANOSTUDIO.COM

8425 REGISTERED ARCHITECT
CHRISTOPHER K. PATANO
STATE OF WASHINGTON

Seattle Parks & Recreation

GAS WORKS PARK

Gas Works Park - Comfort Station & East Entry/ADA - 95% CD

TITLE SHEET

DESIGNED _____ DATE December 4, 2020
DRAWN _____
CHECKED _____ SHEET ____ OF ____

ORDINANCE NO.
GW CS - 124590 - 2008 PLF
SDOT Sidewalk – 125207 – REET 1
East Entry/ADA – 125207 - REET I

CONTRACT NO. 2055

SCALE AS NOTED

G0.00

GENERAL NOTES

1. ALL WORK, MATERIALS, AND TESTING SHALL BE IN ACCORDANCE WITH THE LATEST EDITION ISSUED PRIOR TO BID DATE OF THE SEATTLE STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION (SEATTLE STD. SPEC.), DELETE MEASUREMENT AND PAYMENT PROVISIONS, AND SEATTLE STANDARDS PLANS (SEATTLE STD. PLANS), EXCEPT AS MODIFIED BY THE CONTRACT DOCUMENTS. ALL REFERENCES TO OTHER STANDARDS AND SPECIFICATIONS SHALL BE IN ACCORDANCE WITH THE LATEST EDITION ISSUED PRIOR TO BID DATE.
2. PRIOR TO ANY CONSTRUCTION ACTIVITY, THE CONTRACTOR SHALL SCHEDULE AND ATTEND A PRE-CONSTRUCTION
3. CONFERENCE WITH THE PARK ENGINEER. THE CONTRACTOR SHALL NOTIFY THE OWNER'S PROFESSIONAL ENGINEERING
4. CONSULTANT OF THE PRECONSTRUCTION MEETING TIME AND LOCATION.
5. CONTRACTORS SHALL FAMILIARIZE THEMSELVES WITH THE SITE AND SHALL BRING ANY DISCREPANCIES TO THE ATTENTION OF THE ENGINEER PRIOR TO UNDERTAKING THE AFFECTED WORK.
6. ANY DISCREPANCY IN THESE DRAWINGS, SPECIFICATIONS, AND/OR THE SITE CONDITIONS SHALL BE REPORTED TO THE ENGINEER, WHO SHALL ADDRESS SUCH DISCREPANCY IN WRITING AFTER REVIEWING ANY CHANGES. ANY WORK DONE BY THE CONTRACTOR AFTER THE DISCOVERY OF SUCH DISCREPANCY SHALL BE DONE AT THE CONTRACTOR'S RISK. VERIFY AND COORDINATE THE DIMENSIONS AMONG ALL DRAWINGS PRIOR TO PROCEEDING WITH ANY WORK.
7. BURIED UTILITIES ARE SHOWN IN THEIR APPROXIMATE LOCATION. PRIOR TO INSTALLATION OF ANY PROJECT IMPROVEMENTS, VERIFY LOCATION AND ELEVATION OF EXISTING UTILITIES. IN THE EVENT OF ANY DISCREPANCY FROM THE INFORMATION PRESENTED ON THESE PLANS, CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY.
   A. THE LOCATION OF EXISTING UTILITIES SHOWN MAY DIFFER FROM ACTUAL LOCATION. CONTRACTOR SHOULD NOT ASSUME UTILITIES SHOWN WILL BE THE ONLY UTILITIES/OBSTACLES THAT MAY BE PRESENT ON THE SITE. VERIFY EXISTING CONDITIONS AND PROCEED WITH CAUTION AROUND ANY ANTICIPATED FEATURES. GIVE NOTICE TO UTILITY PURVEYORS REGARDING DEMOLITION AND REMOVAL OF SERVICE LINES AND CAP LINES BEFORE PROCEEDING WITH FURTHER WORK.
8. AS-BUILT RECORDS: KEEP THREE SETS OF DRAWINGS ONSITE AT ALL TIMES FOR RECORDING AS-BUILT INFORMATION. ONE SET SHALL BE PROVIDED TO THE ENGINEER AND ONE TO THE AGENCY HAVING JURISDICTION (AHJ). ONE ELECTRONIC SET OF AS-BUILT DRAWINGS IN PORTABLE DOCUMENT FORMAT (PDF) MAY BE PROVIDED IN LIEU OF MULTIPLE COPIES.
9. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR DEVELOPING, EXECUTING AND ENFORCING A SAFETY PLAN TO PROTECT WORKERS AND THE PUBLIC FROM INJURY OR HARM. THE PLAN SHALL CONFORM TO ALL LOCAL, STATE AND FEDERAL REGULATIONS AND INCLUDE THE FOLLOWING:
   A. CONTRACTOR SHALL CONSULT WITH THEIR OWN GEOTECHNICAL ENGINEERING EXPERT FOR DETERMINING SOIL CLASSIFICATION RELATIVE TO SAFE SLOPING OF SOILS.
   B. CONTRACTOR SHALL DETERMINE SAFE EXCAVATION AND DEWATERING METHODS, MONITOR EXCAVATIONS AND EARTHWORK OPERATIONS FOR SAFETY CONCERNS AND PROVIDE SHORING AND OTHER PROTECTION AS REQUIRED TO PROTECT WORKERS.
   C. IT IS NOT THE INTENT OF THE CONSTRUCTION DOCUMENTS TO DICTATE ANY UNSAFE CONSTRUCTION MEANS OR METHODS; CONTRACTOR SHALL DETERMINE MEANS AND METHODS OF CONSTRUCTION CONFORMING TO THEIR SAFETY PLAN AS REQUIRED TO CONSTRUCT WORK SHOWN ON THE CONTRACT DOCUMENTS.
10. PROTECT THE PUBLIC AT ALL TIMES WITH FENCING, BARRICADES, ENCLOSURES, AND/OR OTHER APPROPRIATE BEST MANAGEMENT PRACTICES; COORDINATE MEASURES WITH OWNER AND AHJ.
11. CONTINUOUS ACCESS SHALL BE MAINTAINED TO THE PARK OUTSIDE THE WORK AREA DURING PARK HOURS.
12. THE CONTRACTOR SHALL NOTIFY THE SEATTLE FIRE DEPARTMENT DISPATCHER (386-1495) TWENTY-FOUR (24) HOURS IN ADVANCE OF ALL WATER SERVICE INTERRUPTIONS, HYDRANT SHUTOFFS, AND STREET CLOSURES OR OTHER ACCESS BLOCKAGE. THE CONTRACTOR SHALL ALSO NOTIFY THE DISPATCHER OF ALL NEW, RELOCATED, OR ELIMINATED HYDRANTS RESULTING FROM THIS WORK.
13. ALL WORK PERFORMED BY SEATTLE CITY LIGHT, SEATTLE WATER, AND OTHER PUBLIC UTILITIES TO REMOVE OR RELOCATE EXISTING UTILITIES SHALL BE DONE AT THE PERMITTEE'S EXPENSE.

CONSTRUCTION SEDIMENT CONTROL NOTES

1. STORMWATER POLLUTION PREVENTION PLAN (SWPPP) REPORT INCLUDED IN THE BID DOCUMENTS, IS A PART OF THE CONTRACT DOCUMENTS.
2. CONSTRUCTION SEDIMENT CONTROL (CSC) MEASURES SHALL BE IN PLACE PRIOR TO THE BEGINNING OF CONSTRUCTION.
3. CSC MEASURES ARE NOT LIMITED TO THE ITEMS SHOWN ON THESE PLANS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF ALL CSC MEASURES. SILTATION OF EXISTING OR PROPOSED DRAINAGE FACILITIES SHALL NOT BE ALLOWED.
4. THE CONTRACTOR SHALL MAKE A DAILY SURVEILLANCE OF ALL CSC MEASURES AS REQUIRED. THE CONTRACTOR SHALL PROVIDE ADDITIONAL CSC MEASURES AS DETERMINED NECESSARY BY THE PROJECT ENGINEER, OWNER OR INSPECTOR. FAILURE TO COMPLY WITH ALL LOCAL AND STATE CSC REQUIREMENTS MAY RESULT IN CIVIL PENALTIES BEING LEVIED AGAINST THE CONTRACTOR.
5. DURING THE WET SEASON (OCTOBER 1ST/ THROUGH APRIL 30TH), ALL DISTURBED SOILS SHALL BE STABILIZED WITHIN 48 HOURS AFTER STOP OF WORK. DURING THE DRY SEASON (MAY 1ST/ THROUGH SEPTEMBER 30TH/), ALL SOILS THAT WILL BE UNCOVERED OR UNWORKED FOR 7 DAYS SHALL BE COVERED OR STABILIZED.
6. TRENCH DEWATERING DEVICES SHALL BE DISCHARGED IN A MANNER THAT WILL NOT ADVERSELY AFFECT STREAMS, DRAINAGE SYSTEMS, OR OFFSITE PROPERTIES.
7. STORM SEWER INLETS RECEIVING RUNOFF FROM THE PROJECT DURING CONSTRUCTION SHALL BE PROTECTED SO THAT SEDIMENT-LADEN WATER WILL BE FILTERED BEFORE ENTERING THE CONVEYANCE SYSTEM.
8. ALL CATCH BASINS IMMEDIATELY ADJACENT TO AND DOWNSTREAM WITHIN 500 FEET OF THE PROPOSED PROJECT SITE SHALL BE PROTECTED FROM SILTATION.
11. ALL DISTURBED AREAS SHALL BE PERMANENTLY STABILIZED UPON COMPLETION OF THE WORK. THE CONTRACTOR SHALL ENSURE THAT COMPLETE COVERAGE OF THE DISTURBED AREAS IS PROVIDED AND THAT GROWTH OF THE VEGETATION IS ESTABLISHED.
12. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN TEMPORARY SEDIMENTATION COLLECTION FACILITIES TO ENSURE THAT SEDIMENT-LADEN WATER DOES NOT ENTER THE NATURAL OR PUBLIC DRAINAGE SYSTEM. AS CONSTRUCTION PROGRESSES AND UNEXPECTED (SEASONAL) CONDITIONS DICTATE, MORE SILTATION CONTROL FACILITIES MAY BE REQUIRED TO ENSURE COMPLETE SILTATION CONTROL OF THE PROJECT. THEREFORE, DURING THE COURSE OF CONSTRUCTION IT SHALL BE THE OBLIGATION AND RESPONSIBILITY OF THE CONTRACTOR TO ADDRESS ANY NEW CONDITIONS THAT MAY BE CREATED BY HIS ACTIVITIES AND TO PROVIDE ADDITIONAL FACILITIES THAT MAY BE NEEDED TO PROTECT ADJACENT PROPERTIES.

DEMOLITION NOTES

1. THE DEMOLITION SHOWN IS NOT INTENDED TO BE AN EXHAUSTIVE LIST OF ITEMS TO BE DEMOLISHED. DEMOLITION NOTES ARE FOR CLARIFICATION ONLY AND ARE SHOWN FOR THE CONTRACTOR'S BENEFIT. DEMOLISH, REMOVE AND LEGALLY DISPOSE OF ALL EXISTING IMPROVEMENTS NECESSARY TO ACCOMMODATE CONSTRUCTION OF THE PROPOSED IMPROVEMENTS. OBTAIN ALL PERMITS REQUIRED FOR DEMOLITION AND DISPOSAL.
2. ALL CONSTRUCTION MATERIALS SHALL BE NEW EXCEPT FOR THOSE IDENTIFIED TO BE RELOCATED ON THE PLANS. RESTORE ANY ITEMS DAMAGED DURING CONSTRUCTION TO THE PRECONSTRUCTION CONDITION.
3. LIMITS OF DISTURBANCE ARE SHOWN PAST THE PROPERTY LINE FOR CLARITY. LAND DISTURBING ACTIVITY SHOULD NOT EXTEND ONTO ADJACENT PROPERTIES UNLESS OTHERWISE NOTED.
4. THE CONTRACTOR IS RESPONSIBLE FOR THE DEMOLITION, REMOVAL, AND DISPOSAL (IN A LOCATION APPROVED BY ALL GOVERNING AUTHORITIES) OF ALL SOIL, STRUCTURES, PADS, WALLS, FLUMES, FOUNDATIONS, PARKING LOTS, DRIVES, DRAINAGE, STRUCTURES, UTILITIES, ETC., SUCH THAT THE IMPROVEMENTS SHOWN ON THE REMAINING PLANS CAN BE CONSTRUCTED. ALL FACILITIES TO BE REMOVED SHALL BE UNDEROUT TO SUITABLE MATERIAL AND BROUGHT TO GRADE WITH SUITABLE COMPACTED FILL MATERIAL PER THE SPECIFICATIONS.
5. THE LOCATIONS OF ALL EXISTING UTILITIES SHOWN ON THIS PLAN HAVE BEEN DETERMINED FROM THE BEST INFORMATION AVAILABLE AND ARE GIVEN FOR THE CONVENIENCE OF THE CONTRACTOR. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THEIR ACCURACY. PRIOR TO THE START OF ANY DEMOLITION ACTIVITY, THE CONTRACTOR SHALL NOTIFY THE UTILITY COMPANIES FOR ONSITE LOCATIONS OF EXISTING UTILITIES.
6. DAMAGE TO ALL EXISTING CONDITIONS TO REMAIN WILL BE REPLACED AT CONTRACTOR'S EXPENSE.
7. STRIP ALL EXISTING VEGETATION AND TOPSOIL WHERE GRADING WORK IS TO OCCUR, UNLESS OTHERWISE NOTED.
8. ALL EXISTING ASPHALT TO BE DEMOLISHED ADJACENT TO NEW ASPHALT AND SHALL BE COMPLETED WITH A SAW CUT NEAT UNIFORM EDGE.

GRADING NOTES

1. ADA COMPLIANCE:
   A. SHALL BE IN ACCORDANCE WITH CFR 28, PART 35;
   B. FOR WORK IN THE RIGHT-OF-WAY, CFR 28, PART 35 SHALL BE SUPPLEMENTED BY THE PUBLIC WORKS RIGHTS OF WAY ACCESSIBILITY GUIDELINES (PROWAG);
   C. ALL SITE IMPROVEMENTS SUBJECT TO THE AMERICAN WITH DISABILITIES ACT (ADA) STANDARDS FOR ACCESSIBLE DESIGN SHALL MEET THE FOLLOWING MAXIMUM SLOPES. IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO REMOVE AND REPLACE IMPROVEMENTS OUT OF COMPLIANCE WITH THE ADA STANDARDS.

THE FOLLOWING MAXIMUM SLOPES SHALL NOT BE EXCEEDED UNLESS NOTED ON THE PLAN AS A "MAXIMUM EXTENT FEASIBLE" (MEF) LOCATION:

   A. LONGITUDINAL/RUNNING SLOPE OF WALKWAYS AND CROSSWALKS: 5.00%
   B. CROSS SLOPE OF SIDEWALK: 2.00%
   C. LONGITUDINAL/RUNNING SLOPE OF RAMP: 8.33%
   D. CROSS SLOPE OF RAMP: 2.00%
   E. LONGITUDINAL/RUNNING SLOPE OF LANDING: 2.00%
   F. CROSS SLOPE OF LANDING: 2.00%
   G. TOP OF CURB SLOPE AT RAMP FLARE: 10.00%
   H. FLOW LINE SLOPE AT PEDESTRIAN CROSSING: 2.00%

2. THE SPOT ELEVATIONS INDICATED ON THIS PLAN REPRESENT THE DESIGN TOP OF PAVEMENT UNLESS OTHERWISE NOTED.
3. PROVIDE POSITIVE DRAINAGE AWAY FROM BUILDINGS FOR ALL NATURAL AND PAVED AREAS AND GRADE ALL AREAS TO PRECLUDE PONDING OF WATER.
4. ADJUST ALL EXISTING MANHOLE RIMS, DRAINAGE STRUCTURES, VALVE BOXES, VAULT LIDS AND UTILITY ACCESS STRUCTURES THAT WILL BE PRESERVED TO FINISHED GRADE WITHIN AREAS AFFECTED BY CONSTRUCTION.
7. UNLESS OTHERWISE NOTED INSTALL BIODEGRADABLE EROSION CONTROL BLANKET ON ALL SLOPES 3H:1V OR GREATER PER WSDOT 8-01.3(3). BLANKET SHALL MEET THE REQUIREMENTS 9-14.5(2).

DRAINAGE NOTES

1. ALLOWABLE GRAVITY STORM DRAINAGE CONVEYANCE PIPES AND FITTINGS (STORM DRAIN LINE/ROOF DRAIN LINE) CONFORMING TO SEATTLE STD. SPEC. 7-17. THE FOLLOWING MATERIALS MAY BE USED, UNLESS OTHERWISE IDENTIFIED SPECIFICALLY ON THE PLANS:
   A. POLYVINYL CHLORIDE PIPE AND FITTINGS (PVC) PER SEATTLE STD. SPEC. 9-05.4. MINIMUM COVER SHALL BE 3.00'.
   B. CORRUGATED POLYETHYLENE DRAIN PIPE AND FITTINGS (CPEP), DOUBLE WALL, PER SEATTLE STD. SPEC. 9-05.5(2). MINIMUM COVER SHALL BE 2.00'.
   C. CORRUGATED POLYPROPYLENE DRAIN PIPE AND FITTINGS (CPP), DOUBLE WALL, PER SEATTLE STD. SPEC. 9-05.17. MINIMUM COVER SHALL BE 1.00'.
   D. DUCTILE IRON SEWER PIPE AND FITTINGS, CLASS 52 (DI). PER SEATTLE STD. SPEC. 9-05.3. MINIMUM COVER SHALL BE 1.00'.
3. ALLOWABLE UNDERDRAIN PIPES AND FITTINGS (FOOTING DRAIN LINE) CONFORMING TO SEATTLE STD. SPEC 7-01:
   A. PERFORATED POLYVINYL CHLORIDE UNDERDRAIN PIPE (PERF. PVC).
   B. PERFORATED CORRUGATED POLYETHYLENE (PE) UNDERDRAIN PIPE (PERF. CPEP)
4. ALLOWABLE UNDERDRAIN PIPES AND FITTINGS FOR BIORETENTION/RAIN GARDENS: SLOTTED PVC SUBSURFACE DRAIN PIPE IN ACCORDANCE WITH CITY OF SEATTLE (COS) STD. SPEC. 9-05.3(1) (SLOTTED PVC).
5. WALL FOOTING DRAIN LINES ARE LOCATED ON PLANS FOR CLARITY AND ARE TO BE INSTALLED IN ACCORDANCE WITH STANDARD PRACTICE AND APPLICABLE CODES.
6. ALL STORM DRAINAGE LINE CLEANOUTS MUST COMPLY WITH THE CLEANOUT DETAIL.
7. ALL CATCH BASINS ARE TO BE SITUATED SUCH THAT THE OUTSIDE EDGE OF GRATE FRAME IS AT TOE OF CURB OR FLOW LINE OF GUTTER (WHERE APPLICABLE).
8. INSTALL ALL STORM DRAINAGE CATCH BASINS AND MANHOLES IN PAVED AREAS FLUSH WITH PAVEMENT. MANHOLES IN UNPAVED AREAS SHALL BE 6" ABOVE FINISHED GRADE. LIDS SHALL BE LABELED "STORM."
9. REMOVE ALL SILT AND DEBRIS FROM EXISTING DRAINAGE PIPES AFTER CONTRIBUTING BASIN AREAS HAVE BEEN PERMANENTLY STABILIZED.
10. PROVIDE, INSTALL AND TEST ALL STORM DRAINAGE SYSTEMS IN ACCORDANCE WITH SEATTLE STD. SPEC. 7-17 AND THE TRENCH SECTION DETAIL.
11. REFER TO MASTER SITE SPECIFICATIONS SECTION 33 4000 FOR ALLOWED MATERIALS.
12. CONNECTIONS TO CATCH BASINS SHALL USE SAND COLLARS.
13. WHERE A NEW PIPE CLEARS AN EXISTING OR NEW UTILITY BY 6" OR LESS, POLYETHYLENE PLASTIC FOAM SHALL BE PLACED AS A CUSHION BETWEEN THE UTILITIES.
14. SERVICE DRAINS AND SIDE SEWERS SHALL NOT BE BACKFILLED UNTIL THE PIPE HAS BEEN INSPECTED AND APPROVED AND THE LOCATION AND DEPTH IS RECORDED BY THE PARKS ENGR.
15. THE CONTRACTOR SHALL PROVIDE SUPPORTS FOR POWER POLES NEAR EXCAVATIONS PER SEATTLE CITY LIGHT STANDARDS NO. D3-6.
16. THE CONTRACTOR SHALL OBTAIN A SANITARY SEWER PERMIT FROM SEATTLE'S DEPARTMENT OF CONSTRUCTION AND INSPECTION PER SMC 21.16.
17. THE CONTRACTOR IS RESPONSIBLE FOR ALL CALLED INSPECTOR REQUESTS UNDER SMC 21.16

UTILITY NOTES:

1. PROVIDE, INSTALL AND TEST SANITARY SEWER SERVICE LINES IN ACCORDANCE WITH SEATTLE PUBLIC UTILITY STANDARDS AND SEATTLE STD. SPEC. 7-18.
2. PROVIDE, INSTALL AND TEST WATER SERVICE LINES IN ACCORDANCE WITH SEATTLE PUBLIC UTILITY STANDARDS AND SEATTLE STD. SPEC. 7-15.

WATER SERVICE NOTES

1. DOMESTIC WATER SERVICE LINES SHALL BE INSTALLED WITH A MINIMUM OF 24" OF COVER.
2. ALL WATER SERVICE PIPING ON PROPERTY MUST BE INSPECTED PRIOR TO BACKFILLING TRENCH.
3. FOR INFORMATION AND INSPECTION, PHONE WATER SERVICE AT 684-5800. COORDINATE WITH PARKS PLUMBING SHOP.
4. COORDINATE WORK WITH SPU AND PARKS PLUMBING SHOP.

SIDE SEWER AND DRAINAGE PERMIT NOTES

1. SIDE SEWER AND DRAINAGE FACILITIES SHALL BE CONSTRUCTED PER THE "REQUIREMENTS FOR DESIGN OF SIDE SEWERS (DRAINAGE & WASTEWATER)" DIRECTORS' RULE DPD 4-2011-004 AND PER THE "2016 SEATTLE STORMWATER MANUAL" DIRECTORS' RULE DPD 21-2015/SPU DWW-200.
2. A SEPARATE DRAINAGE AND SIDE SEWER PERMIT IS REQUIRED FOR ALL ONSITE DRAINAGE ELEMENTS AND SIDE SEWERS/SERVICE DRAINS. APPROVAL OF THIS PLAN IS REQUIRED PRIOR TO OBTAINING A DRAINAGE AND SIDE SEWER PERMIT.
3. REUSE OF EXISTING SIDE SEWERS WHEN THERE WILL BE AN INCREASE IN LIVING UNITS REQUIRES THE EVALUATION AND CERTIFICATION (PE EVAL/CERT) OF THE EXISTING SIDE SEWER BY A PROFESSIONAL ENGINEER. MSC TO BE OBTAINED PRIOR TO FINALIZING THE SIDE SEWER AND DRAINAGE PERMIT. IN MOST CASES, THE SIDE SEWER MUST BE LINED ALL THE WAY TO THE MAIN. SEE DIRECTORS RULE 4-2011V.M AND SMC 21.16.240.
4. IN ORDER TO ADD UNITS TO AN EXISTING SIDE SEWER, A CERTIFIED LETTER STATING THE INTENT TO ASS UNITS TO THE SHARED SIDE SEWER MUST BE SENT TO ALL PROPERTY OWNERS OF PARCELS SERVICED BY THE SHARED SIDE SEWER AS LEAST 30 DAYS PRIOR TO APPLYING FOR THE SIDE SEWER PERMIT. MSC 21.16.240.C. A RECEIPT OF CERTIFIED MAILING AND THE CERTIFICATION/ATTESTATION OF MAILING NOTIFICATION MUST BE SUBMITTED TO SDCI PRIOR TO PERMIT ISSUANCE.
5. DEVIATIONS FROM THE APPROVED DRAINAGE AND WASTEWATER CONTROL PLAN MAY REQUIRE A FORMAL POST-SUBMITTAL REVISION FOR PLAN REVIEW AND APPROVAL. POST-SUBMITTAL REVISIONS MUST BE SUBMITTED ELECTRONICALLY THROUGH THE SDCI PROJECT PORTAL.

COS CSC GENERAL NOTES

1. A FIRST GROUND DISTURBANCE INSPECTION IS REQUIRED PRIOR TO START OF WORK ON ALL SITES WITH LAND DISTURBING ACTIVITY.
2. SCHEDULE A FIRST GROUND DISTURBANCE INSPECTION FOR AN ISSUED BUILDING PERMIT AT 206-684-8900 OR ONLINE AT WWW.SEATTLE.GOV/DPD/PERMITS/INSPECTIONS/
3. THE APPLICANT SHALL DESIGNATE AN EROSION AND SEDIMENT CONTROL (ESC) SUPERVISOR WHO SHALL BE RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES (BMPS). FOR LARGE CONSTRUCTION PROJECT, THE ESC SUPERVISOR SHOULD BE A CERTIFIED EROSION AND SEDIMENT CONTROL LEAD (CESCL). PROVIDE THE NAME AND PHONE NUMBER OF THE ESC SUPERVISOR TO THE SITE INSPECTOR AT THE FIRST GROUND DISTURBANCE INSPECTION.
4. BMPS SHALL BE INSTALLED PRIOR TO STARTING CONSTRUCTION TO ENSURE SEDIMENT-LADEN WATER DOES NOT LEAVE THE PROJECT SITE OR ENTER ROADSIDE DITCHES, STORM DRAINS, SURFACE WATERS, OR WETLANDS.
5. THE BMPS INCLUDED IN THIS PLAN ARE THE MINIMUM REQUIREMENTS FOR ANTICIPATED SITE CONDITIONS. THE APPLICANT IS RESPONSIBLE FOR ENSURING THAT BMPS ARE MODIFIED AS NEEDED FOR UNEXPECTED STORM EVENTS OR OTHER UNFORESEEN CIRCUMSTANCES, AND TO ACCOUNT FOR CHANGING SITE CONDITIONS.
6. ANY AREAS OF DISTURBED SOIL THAT WILL NOT BE WORKED FOR TWO CONSECUTIVE DAYS DURING THE WET SEASON (OCT 1 TO APRIL 30) OR SEVEN DAYS DURING THE DRY SEASON (MAY 1 TO SEPT 30) SHALL BE IMMEDIATELY STABILIZED WITH APPROVED BPS METHODS (E.G. STRAW MULCH, PLASTIC COVERING, COLD MIX, ETC.)
7. GRADING AND/OR SOIL DISTURBING ACTIVITIES MAY BE LIMITED OR PROHIBITED FOR CERTAIN SITES SUBJECT TO ECA STANDARDS (I.E. ECA STEEP SLOPES, LANDSLIDE PRONE AREAS, ETC.) BETWEEN OCTOBER 31ST AND APRIL 1ST. IF NOTED IN THE GEOTECHNICAL SPECIAL INSPECTIONS REQUIREMENTS. A GRADING SEASON EXTENSION LETTER (GSEL) ISSUED BY SDCI IS REQUIRED FOR ALL GRADING AND/OR SOIL DISTURBING ACTIVITIES DURING THIS PERIOD. THE GEOTECHNICAL SPECIAL INSPECTOR MUST SUBMIT ELECTRONIC APPLICATIONS FOR A GSEL USING THE SDCI PROJECT PORTAL. ALLOW FOUR TO SIX WEEKS FOR PROCESSING. FAILURE TO OBTAIN THE GSEL PRIOR TO OCTOBER 31 MAY RESULT IN A WORK STOPPAGE.
8. CITY STREETS AND SIDEWALKS SHALL BE KEPT CLEAN AT ALL TIMES. NO MATERIAL SHALL BE STORED ON CITY STREETS OR SIDEWALKS WITHOUT A STREET USE PERMIT FROM THE SEATTLE DEPARTMENT OF TRANSPORTATION (SDOT).
9. POLLUTION CONTROL MEASURES SHALL BE FOLLOWED TO ENSURE THAT NO LIQUID PRODUCTS OR CONTAMINATED WATER ENTERS ANY STORM DRAINAGE FACILITIES OR OTHERWISE LEAVE THE PROJECT SITE. ANY HAZARDOUS MATERIALS OR LIQUID PRODUCTS THAT HAVE THE POTENTIAL TO POLLUTE RUNOFF SHALL BE STORED AND DISPOSED OF PROPERLY.
10. ENSURE THAT WASHOUT FROM CONCRETE TRUCKS IS PERFORMED OFF-SITE OR IN DESIGNATED CONCRETE WASHOUT AREAS ONLY. DO NOT WASH OUT CONCRETE TRUCKS ONTO THE GROUND, OR TO STORM DRAINS OR OPEN DITCHES. DO NOT DUMP EXCESS CONCRETE ONSITE, EXCEPT IN DESIGNATED CONCRETE WASHOUT AREAS.
11. ALL AREAS OF DISTURBED SOIL SHALL BE FULLY STABILIZED WITH THE APPROPRIATE SOIL AMENDMENT AND COVER MEASURE AT COMPLETION OF THE PROJECT. TYPICAL COVER MEASURE INCLUDE LANDSCAPING OR HYDROSEED WITH MULCH.

ABBREVIATIONS

AC	ACRE
APPROX	APPROXIMATELY
APWA	AMERICAN PUBLIC WORKS ASSOCIATION
ARCH	ARCHITECTURAL
ASPH	ASPHALT
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS
AVE	AVENUE
BLDG	BUILDING
BMP	BEST MANAGEMENT PRACTICE
BTM	BOTTOM OF PIPE
BG	BOTTOM GRADE
℄	CENTERLINE
CB	CATCH BASIN
CF	CUBIC FEET
CI	CAST IRON
CL	CLASS
CMP	CORRUGATED METAL PIPE
CO	CLEAN OUT
COS	CITY OF SEATTLE
CONC	CONCRETE
CPEP	CORRUGATED POLYETHYLENE PIPE
CR	CROWN OF PIPE
CSC	CONSTRUCTION STORMWATER CONTROL
CSTC	CRUSHED SURFACING TOP COURSE
DEPT	DEPARTMENT
DI	DUCTILE IRON
E	EAST
EA	EACH
EC	EXTRUDED CURB
EG	EXISTING GRADE
ELEV	ELEVATION
EP	EDGE OF PAVEMENT
ESC	EROSION & SEDIMENT CONTROL
EX	EXISTING
EXIST	EXISTING
FFE	FINISH FLOOR ELEVATION
FG	FINISHED GRADE
FH	FIRE HYDRANT
FL	FLANGED
G	GAS
GRVL	GRAVEL
GV	GAS VALVE
H	HEIGHT
HDPE	HIGH DENSITY POLYETHYLENE
HMA	HOT MIX ASPHALT
HORIZ	HORIZONTAL
ID	INSIDE DIAMETER
IE	INVERT ELEVATION
IN	INCH
L	LENGTH
LAT	LATITUDE
LF	LINEAR FEET
LON	LONGITUDE
LT	LEFT
MAX	MAXIMUM
MH	MANHOLE
MIN	MINIMUM
MISC	MISCELLANEOUS
MJ	MECHANICAL JOINT
MON	MONUMENT
N	NORTH
NC	NO CURB
NO.	NUMBER
NTS	NOT TO SCALE
OC	ON CENTER
OD	OUTSIDE DIAMTER
OFF	OFFSET
PC	POINT OF CURVATURE
PCC	POINT OF COMPOUND CURVE
PI	POINT OF INTERSECTION
PL	PROPERTY LINE
PP	POWER POLE
PRC	POINT OF REVERSE CURVE
PROP	PROPOSED
PT	POINT OF TANGENCY
PVC	POLYVINYL CHLORIDE
PVMT	PAVEMENT
R	RADIUS
RCW	REVISED CODE OF WASHINGTON
ROW	RIGHT-OF-WAY
RT	RIGHT
S	SOUTH
SC	STORM CEPTOR
SCH	SCHEDULE
SD	STORM DRAIN
SDMH	STORM DRAIN MANHOLE
SDOT	SEATTLE DEPT OF TRANSPORTATION
SDR	STANDARD DIMENSION RATIO
SF	SQUARE FEET
SPECS	SPECIFICATIONS
SQ YD	SQUARE YARD
SS	SANITARY SEWER
SSCO	SANITARY SEWER CLEANOUT
ST	STREET
STA	STATION
STD	STANDARD
SWPPP	STORM WATER POLLUTION PREVENTION PLAN
T	TELEPHONE
TC	TOP OF CURB
TEMP	TEMPORARY
TESC	TEMPORARY EROSION & SEDIMENT CONTROL
TP	TOP OF PAVEMENT
TG	TOP GRADE
TYP	TYPICAL
UG	UNDER GROUND
UIC	UNDER GROUND INJECTION CONTROL
U.O.N.	UNLESS OTHERWISE NOTED
UP	UTILITY POLE
V	VERTICAL
W	WEST
W/	WITH
WAC	WASHINGTON ADMINISTRATIVE CODE
WSDOT	WASHINGTON STATE DEPARTMENT OF TRANSPORTATION
WV	WATER VALVE
YD	YARD DRAIN

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NO.	REVISION - AS BUILT	DATE
3		
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REVIEWED: _____ PARK ENGINEER _____ DATE

All work done in accordance with the City of Seattle Standard Plans and Specifications in effect on the date shown above, and supplemented by Special Provisions.

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Seattle Parks & Recreation

GAS WORKS PARK

Gas Works Park - Comfort Station & East Entry/ADA - 95% CD

NOTES AND LEGEND

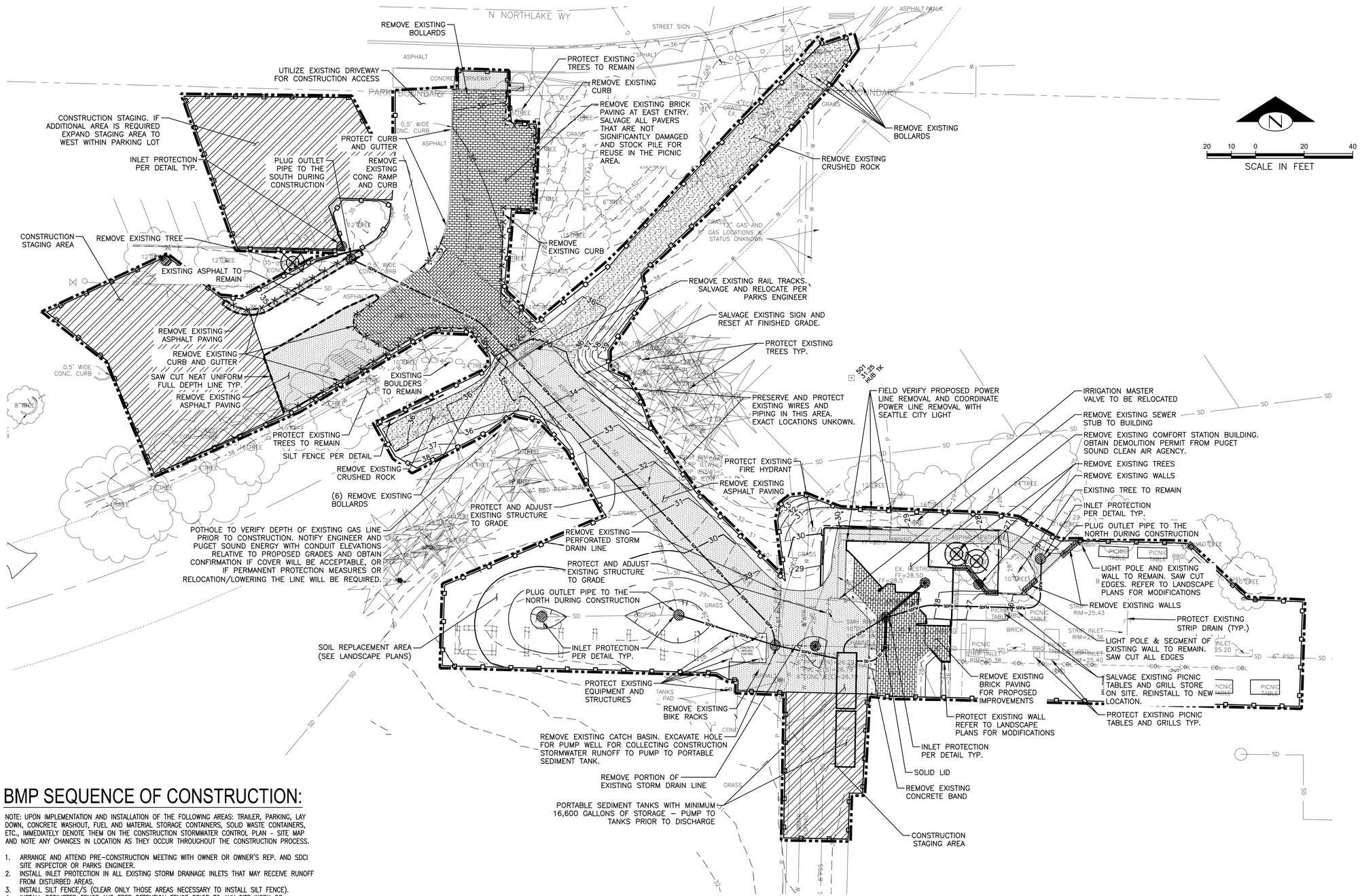
DESIGNED	SP
DRAWN	RB
CHECKED	BD
DATE	DEC 4, 2020
SHEET	____ OF ____

ORDINANCE NO.
GW CS - 124590 - 2008 PLF
SDOT Sidewalk - 125207 - REET 1
East Entry/ADA - 125207 - REET I

CONTRACT NO. 2055

SCALE AS NOTED

C-001



BMP SEQUENCE OF CONSTRUCTION:

NOTE: UPON IMPLEMENTATION AND INSTALLATION OF THE FOLLOWING AREAS: TRAILER, PARKING, LAY DOWN, CONCRETE WASHOUT, FUEL AND MATERIAL STORAGE CONTAINERS, SOLID WASTE CONTAINERS, ETC., IMMEDIATELY DENOTE THEM ON THE CONSTRUCTION STORMWATER CONTROL PLAN – SITE MAP AND NOTE ANY CHANGES IN LOCATION AS THEY OCCUR THROUGHOUT THE CONSTRUCTION PROCESS.

1. ARRANGE AND ATTEND PRE-CONSTRUCTION MEETING WITH OWNER OR OWNER'S REP. AND SDCI SITE INSPECTOR OR PARKS ENGINEER.
2. INSTALL INLET PROTECTION IN ALL EXISTING STORM DRAINAGE INLETS THAT MAY RECEIVE RUNOFF FROM DISTURBED AREAS.
3. INSTALL SILT FENCE/S (CLEAR ONLY THOSE AREAS NECESSARY TO INSTALL SILT FENCE).
4. INSTALL PERIMETER FENCE AND TREE RETENTION FENCE PRIOR TO ANY SITE WORK OR DEMOLITION.
5. INSTALL SEDIMENT TANKS, PUMPS AND STORM DRAIN FORCEMAINS AS NECESSARY TO COLLECT AND TREAT CONSTRUCTION STORMWATER PRIOR TO DISCHARGE
6. UTILIZE EXISTING PAVEMENT FOR TEMPORARY PARKING AND STORAGE AREA WHERE IDENTIFIED ON THE CSC PLAN.
7. CONTRACTOR MAY BEGIN DEMOLITION OF EXISTING IMPROVEMENTS. COORDINATE WITH UTILITY PURVEYORS. MAINTAIN PERIMETER FENCE TO SEPARATE ACTIVE CONSTRUCTION AREAS FROM PEDESTRIAN AND VEHICLE TRAFFIC.
8. BEGIN GRADING THE SITE AND SITE WALL CONSTRUCTION.
9. INSTALL PERMANENT UTILITIES, STORM DRAINAGE SYSTEMS.
10. PAVE THE SITE.
11. PERMANENTLY STABILIZE AREAS TO BE VEGETATED AS THEY ARE BROUGHT TO FINAL GRADE.
12. REMOVE ALL ACCUMULATED SEDIMENT/DEBRIS IN STORM SYSTEM.
13. REMOVE REMAINING CSC MEASURES AFTER SITE HAS BEEN FULLY STABILIZED AND SDCI INSPECTOR OR PARKS ENGINEER HAS APPROVED REMOVAL.

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LEGEND

- REMOVE EXISTING ASPHALT PAVEMENT
- REMOVE EXISTING CONCRETE PAVING
- REMOVE EXISTING PAVERS (SALVAGE AS NOTED)
- REMOVE EXISTING CRUSHED ROCK PAVING
- -X-X-X- REMOVE EXISTING CURB
- TEMPORARY CONSTRUCTION CHAINLINK FENCING/ TREE PROTECTION FENCE (4/C-201, 1/C-202)
- SILT FENCE (2/C-201)
- SAW CUT LINE
- LIMITS OF CONSTRUCTION
- INLET PROTECTION TYP. (1/C-201)
- EXISTING TREES TO REMAIN VERIFY LOCATION ON SITE
- REMOVE EXISTING WALL
- REMOVE EXISTING TREES
- -/-/-/-/-/- REMOVE UTILITY LINE (FIELD VERIFY)
- CAP EXISTING POWER LINE (FIELD VERIFY)
- —D— STORM DRAIN
- —SDFM— STORM DRAIN FORCE MAIN
- CONSTRUCTION STAGING AREA

NO.	REVISION – AS BUILT	DATE
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Seattle Parks & Recreation

GAS WORKS PARK

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CSC DEMO & STAGING PLAN

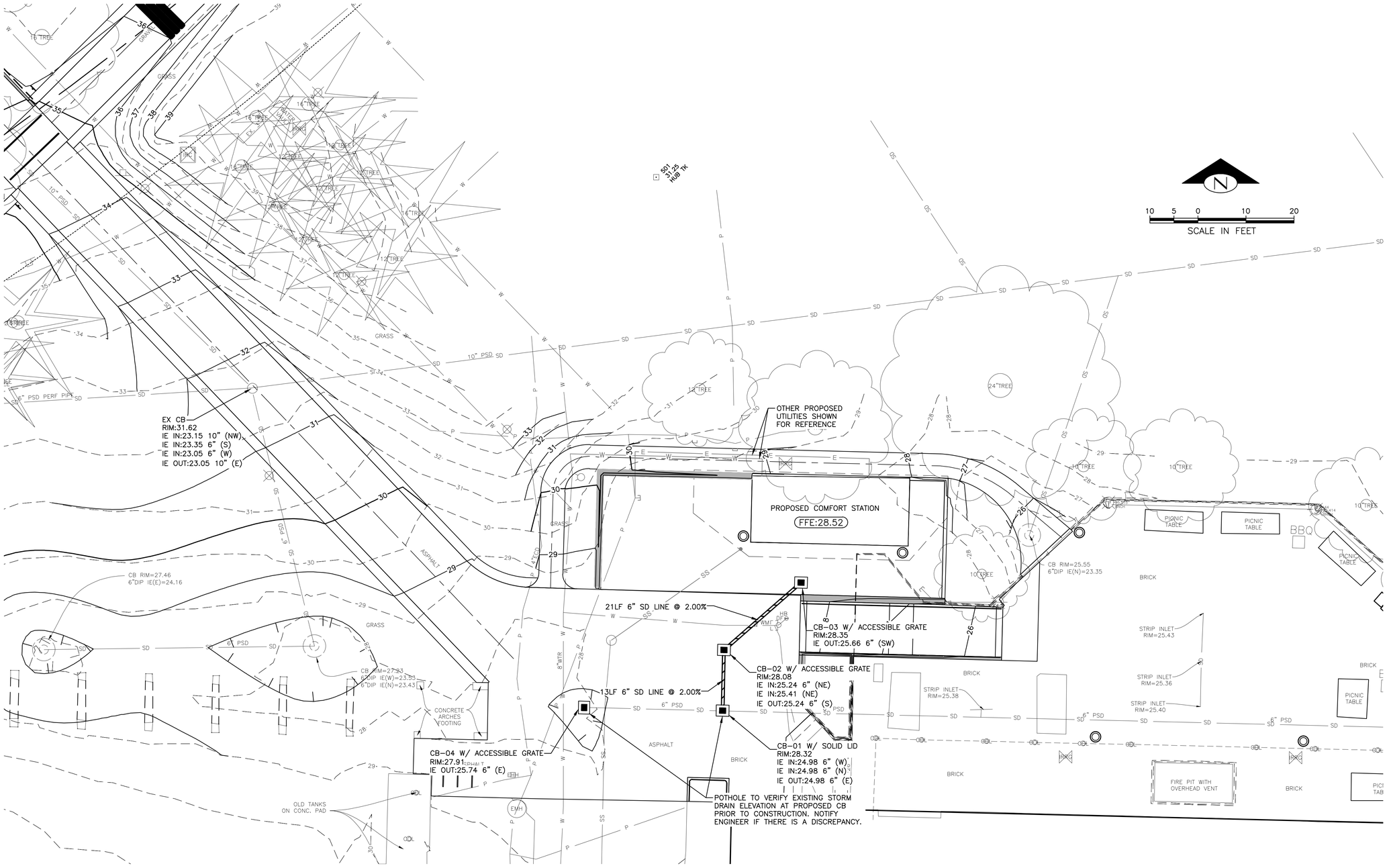
DESIGNED	SP	DATE	DEC 4, 2020
DRAWN	RB		
CHECKED	BD	SHEET	____ OF ____

ORDINANCE NO.
GW CS - 124590 - 2008 PLF
SDOT Sidewalk – 125207 – REET 1
East Entry/ADA – 125207 - REET I

CONTRACT NO. 2055

SCALE AS NOTED

C-101



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LEGEND

- CLEANOUT (1 / C-202)
- TYPE 1 CATCH BASIN (2 / C-202)
- W — WATER SERVICE LINE
- SS — SEWER SERVICE LINE
- STORM DRAIN LINE
- SOIL REPLACEMENT AREA (SEE LANDSCAPE PLANS)

NO.	REVISION – AS BUILT	DATE
3		
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REVIEWED: _____ PARK ENGINEER _____ DATE

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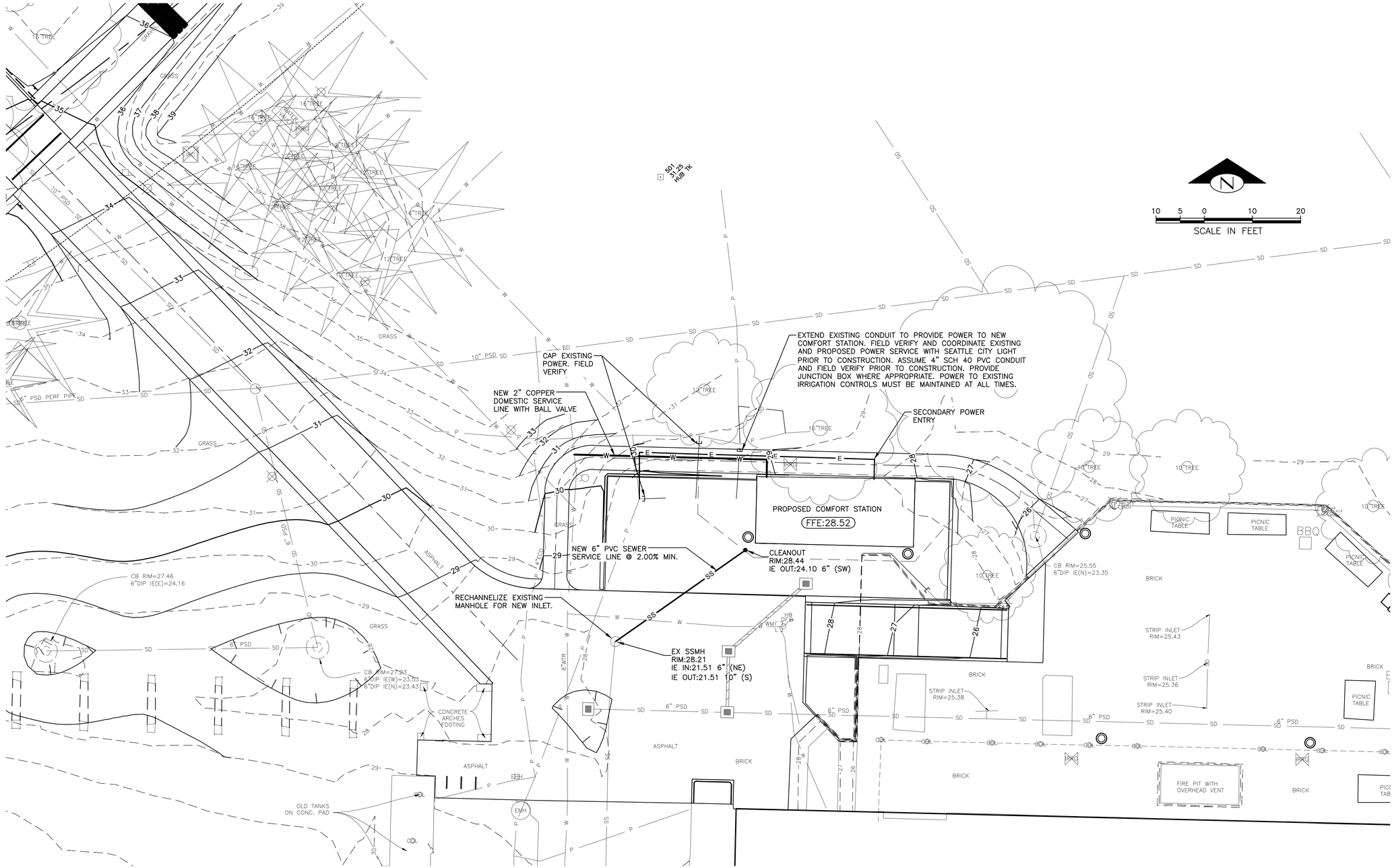
DRAINAGE PLAN

DESIGNED SP	DATE DEC 4, 2020
DRAWN RB	
CHECKED BD	SHEET ____ OF ____
ORDINANCE NO. GW CS - 124590 - 2008 PLF; SDOT Sidewalk – 125207 – REET 1; East Entry/ADA – 125207 - REET I	C-102
CONTRACT NO. 2055	
SCALE AS NOTED	



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- CLEANOUT (1 / C-202)
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- W — WATER SERVICE LINE
- SS — SEWER SERVICE LINE
- STORM DRAIN LINE
- SOIL REPLACEMENT AREA (SEE LANDSCAPE PLANS)

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UTILITY PLAN

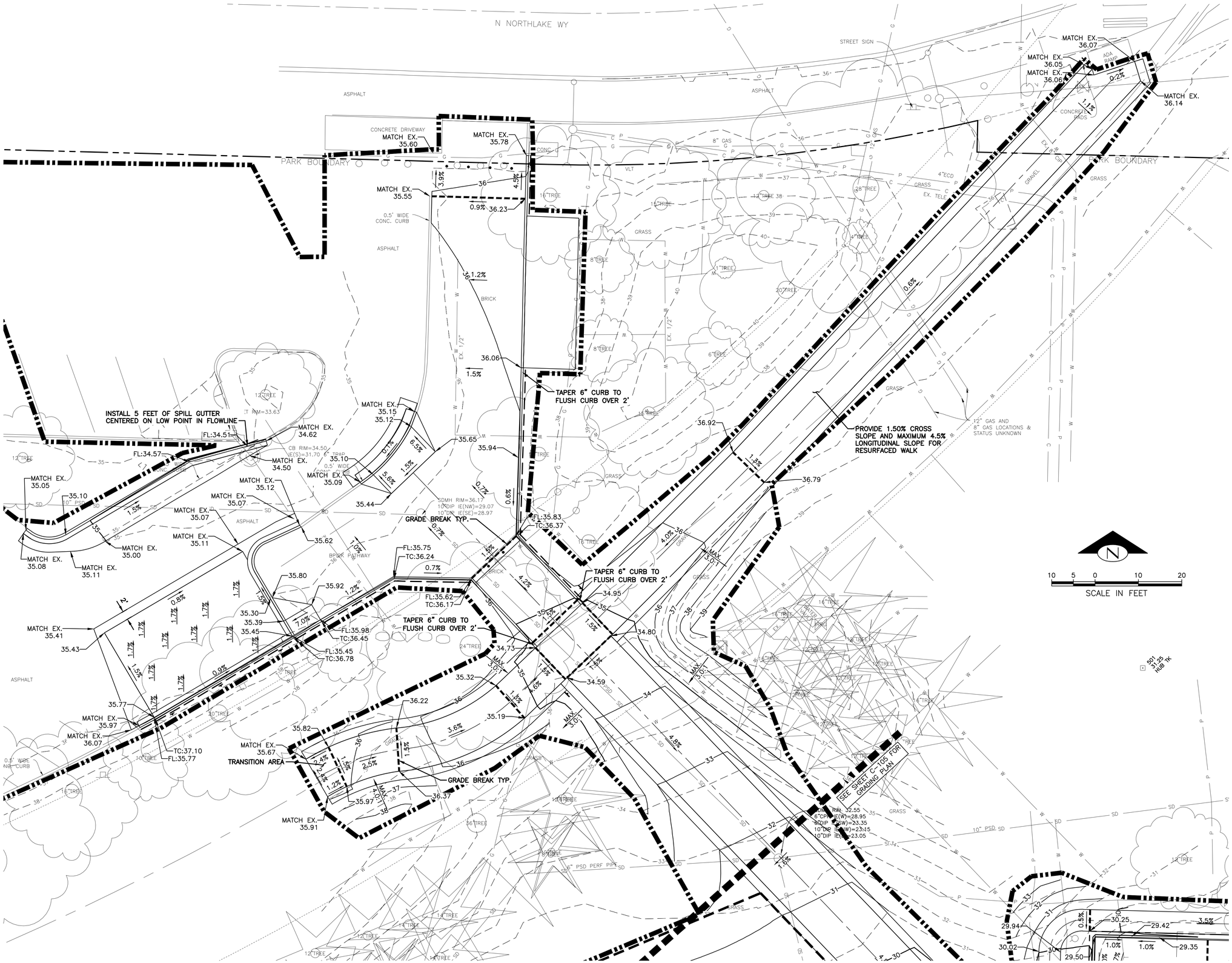
DESIGNED	SP	DATE	DEC 4, 2020
DRAWN	RB	SHEET	____ OF ____
CHECKED	BD		

ORDINANCE NO.
GW CS - 124590 - 2008 PLF
SDOT Sidewalk – 125207 – REET 1
East Entry/ADA – 125207 - REET I

CONTRACT NO. 2055

SCALE AS NOTED

C-103



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LEGEND

TYPE 1 CATCH BASIN

GRADE BREAK LINE

NO.	REVISION – AS BUILT	DATE
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GRADING PLAN

DESIGNED	SP	DATE	DEC 4, 2020
DRAWN	RB		
CHECKED	BD	SHEET	1 OF

ORDINANCE NO.
GW CS - 124590 - 2008 PLF
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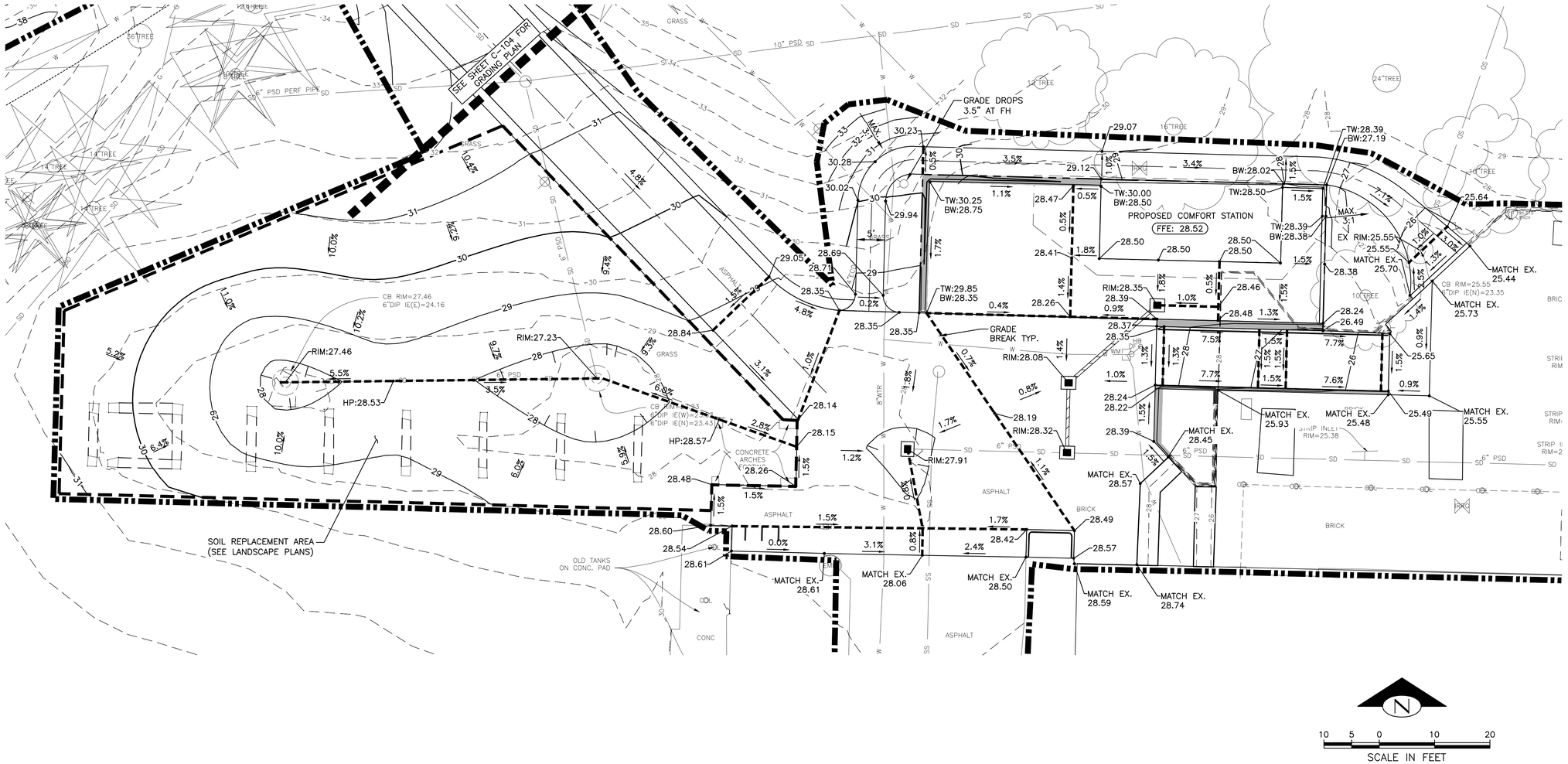
East Entry/ADA – 125207 - REET I

CONTRACT NO. 2055

SCALE AS NOTED

C-104



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LEGEND

- TYPE 1 CATCH BASIN
- GRADE BREAK LINE
- SOIL REPLACEMENT AREA (SEE LANDSCAPE PLANS)

NO.	REVISION – AS BUILT	DATE
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GRADING PLAN

DESIGNED	SP	DATE	DEC 4, 2020
DRAWN	RB	SHEET	1 OF
CHECKED	BD		

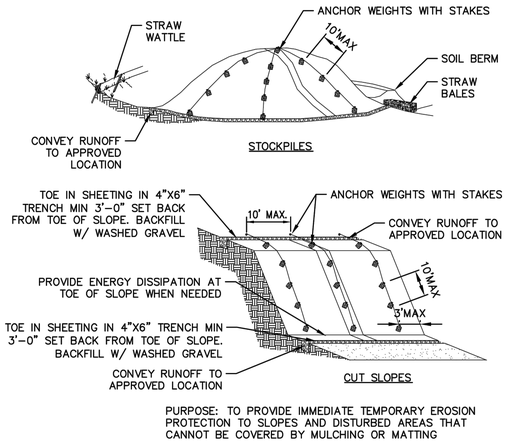
ORDINANCE NO.
GW CS - 124590 - 2008 PLF
SDOT Sidewalk – 125207 – REET 1
East Entry/ADA – 125207 - REET I

CONTRACT NO. 2055

SCALE AS NOTED

C-105

REV DATE: FEB 2017



PURPOSE: TO PROVIDE IMMEDIATE TEMPORARY EROSION PROTECTION TO SLOPES AND DISTURBED AREAS THAT CANNOT BE COVERED BY MULCHING OR MATTING

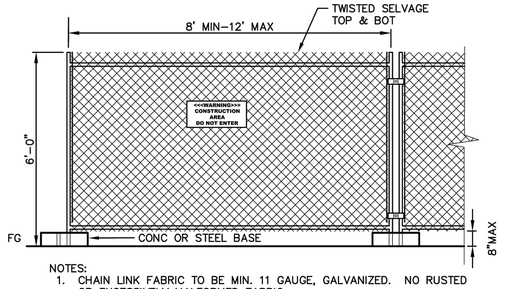
Seattle Parks & Recreation	TEMPORARY PLASTIC COVERING STD. DETAIL NO. 01 57 13.36

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

COVERED STOCKPILE

SCALE: NTS (3)

REV DATE: FEB 2017



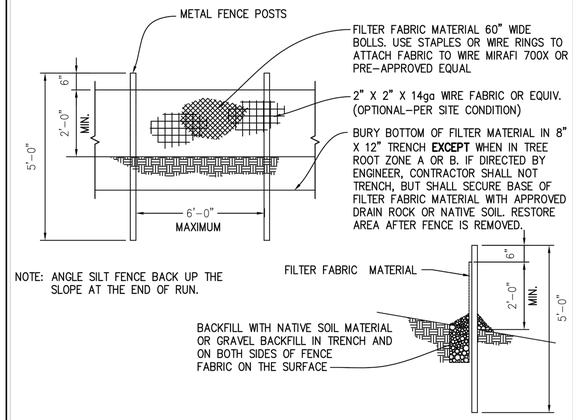
NOTES:
1. CHAIN LINK FABRIC TO BE MIN. 11 GAUGE, GALVANIZED. NO RUSTED OR EXCESSIVELY MALFORMED FABRIC.
2. FENCE BASES SHALL BE OF SUFFICIENT WEIGHT and/or SPREAD TO ADEQUATELY SUPPORT EACH PANEL.
3. PANEL-TO-PANEL CONNECTIONS SHALL BE MADE AT A MIN. TWO LOCATIONS PER CONNECTION UNLESS OTHERWISE APPROVED.
4. PROVIDE CONSTRUCTION WARNING SIGNAGE 50'O.C. ALONG FENCING INSTALLATION.

Seattle Parks & Recreation	TEMPORARY CONSTRUCTION FENCING STD. DETAIL NO. 01 57 13.19

INTENDED PLOT SCALE: 3/8"=1'-0"

TEMPORARY CONSTRUCTION FENCING

SCALE: NTS (4)



PURPOSE: TO INTERCEPT & DETAIN SMALL AMOUNTS OF SEDIMENT UNDER SHEET FLOW CONDITIONS FROM DISTURBED AREAS DURING CONSTRUCTION AND TO REDUCE THE VELOCITY OF SHEET FLOWS..

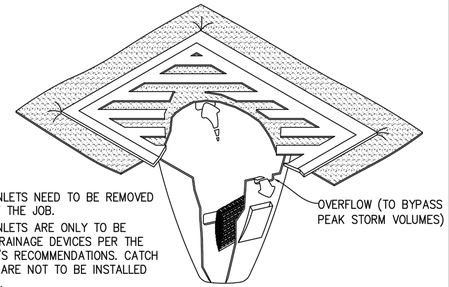
City of Seattle Department of Parks & Recreation	**TEMPORARY ANTI-SILTATION FENCING** **STD. DETAIL NO. 01 57 13.29**

SILTATION FENCE NOTES:

1. PROVIDE AND INSTALL SILT FENCE PER SEATTLE STD. SPEC. 8-01.3(10); EXCEPT THIS DETAIL SHALL TAKE PRECEDENCE OVER SEATTLE STD SPEC.
2. INSTALL THE ENDS OF THE SILT FENCE TO POINT UPSLOPE TO PREVENT SEDIMENT FROM FLOWING AROUND THE ENDS OF THE FENCE.
3. PERFORM MAINTENANCE IN ACCORDANCE WITH SEATTLE STD. SPEC. 8-01.3(14) AND 8-01.3(10).
4. SPLICES SHALL NEVER BE PLACED IN LOW SPOTS OR SUMP LOCATIONS. IF SPLICES ARE LOCATED IN LOW SPOTS OR SUMP AREAS, THE FENCE MAY NEED TO BE REINSTALLED UNLESS THE PROJECT ENGINEER APPROVES THE INSTALLATION.
5. INSTALL SILT FENCING PARALLEL TO MAPPED CONTOUR LINES.
6. DURING EXCAVATION, MINIMIZE DISTURBING THE GROUND AROUND TRENCH AS MUCH AS IS FEASIBLE, AND SMOOTH SURFACE FOLLOWING EXCAVATION TO AVOID CONCENTRATING FLOWS. COMPACTION MUST BE ADEQUATE TO PREVENT UNDERCUTTING FLOWS.

SILT FENCE

SCALE: NTS (2)



NOTES:
1. STORM DRAIN INLETS NEED TO BE REMOVED AT THE END OF THE JOB.
2. STORM DRAIN INLETS ARE ONLY TO BE INSTALLED IN DRAINAGE DEVICES PER THE MANUFACTURER'S RECOMMENDATIONS. CATCH BASIN INSERTS ARE NOT TO BE INSTALLED IN CURB INLETS.
3. INSERTS SHALL BE INSPECTED AND MAINTAINED WHEN A 1/2 INCH RAIN ACCUMULATES WITHIN A 24 HOUR PERIOD. CLEAN AND/OR REPLACE INSERT WHEN HALF OF THE TRAP IS FILLED WITH SEDIMENTS.

PURPOSE: TO PREVENT SEDIMENT FROM ENTERING STORM DRAINAGE SYSTEMS PRIOR TO PERMANENT STABILIZATION OF THE DISTURBED AREA.

City of Seattle Department of Parks & Recreation	**TEMPORARY CATCH BASIN INSERT** **STD. DETAIL NO. 01 57 13.23**

ADDITIONAL INLET PROTECTION NOTES:

1. PROVIDE AND MAINTAIN PER SEATTLE STD. SPEC. 8-01.3(12)8 AND 8-01.3(14)

INLET PROTECTION

SCALE: NTS (1)

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NO.	REVISION – AS BUILT	DATE
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1		

REVIEWED: _____ PARK ENGINEER _____ DATE

All work done in accordance with the City of Seattle Standard Plans and Specifications in effect on the date shown above, and supplemented by Special Provisions.

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603 STEWART ST., SUITE #500, SEATTLE, WA 98101
TEL: 206.754.3870 | WWW.PATANOSTUDIO.COM

bcra

SHANNON MARIE PADORSKI
STATE OF WASHINGTON
58052
REGISTERED
PROFESSIONAL ENGINEER

Seattle Parks & Recreation

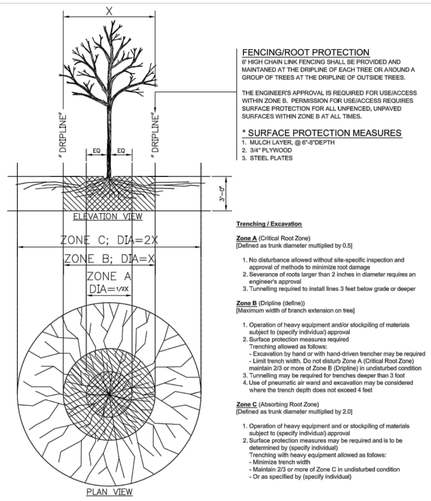
GAS WORKS PARK

Gas Works Park - Comfort Station & East Entry/ADA - 95% CD

CSC DETAILS

DESIGNED	SP
DRAWN	RB
CHECKED	BD
DATE	DEC 4, 2020
SHEET	1 OF
ORDINANCE NO.	GW CS - 124590 - 2008 PLF SDOT Sidewalk – 125207 – REET 1 East Entry/ADA – 125207 - REET I
CONTRACT NO.	2055
SCALE	AS NOTED

C-201



FENCING/ROOT PROTECTION

IF HIGH CHAIN LINK FENCING SHALL BE PROVIDED AND MAINTENED AT THE DRIPLINE OF EACH TREE OR AROUND A GROUP OF TREES AT THE DRIPLINE OF OUTSIDE TREES.

THE ENGINEER'S APPROVAL IS REQUIRED FOR USE/ACCESS REQUIRES WITHIN ZONE B. PERMISSION FOR USE/ACCESS REQUIRES SURFACE PROTECTION FOR ALL UNFENCED, UNPAVED SURFACES WITHIN ZONE B AT ALL TIMES.

*** SURFACE PROTECTION MEASURES**

1. MULCH LAYER, @ 6"-8"DEPTH
2. 3/4" PLYWOOD
3. STEEL PLATES

Trenching / Excavation

Zone A (Critical Root Zone)
[Defined as trunk diameter multiplied by 0.5]

1. No disturbance allowed without site-specific inspection and approval of methods to minimize root damage
2. Severance of roots larger than 2 inches in diameter requires an engineer's approval
3. Tunnelling required to install lines 3 feet below grade or deeper

Zone B (Dripline (define))
[Maximum width of branch extension on tree]

1. Operation of heavy equipment and/or stockpiling of materials subject to (specify individual) approval
2. Surface protection measures required
   Trenching allowed as follows:
   - Excavation by hand or with hand-driven trencher may be required
   - Limit trench width, Do not disturb Zone A (Critical Root Zone) maintain 2/3 or more of Zone B (Dripline) in undisturbed condition
3. Tunnelling may be required for tranches deeper than 3 foot
4. Use of pneumatic air wand and excavation may be considered where the trench depth does not exceed 4 feet

Zone C (Absorbing Root Zone)
[Defined as trunk diameter multiplied by 2.0]

1. Operation of heavy equipment and or stockpiling of materials subject to (specify individual) approval
2. Surface protection measures may be required and is to be determined by (specify individual)
   Trenching with heavy equipment allowed as follows:
   - Minimize trench width
   - Maintain 2/3 or more of Zone C in undisturbed condition
   - Or as specified by (specify individual)

1 TREE PROTECTION DETAIL
PARKS STD. DETAIL # 02950.57 NOT TO SCALE

TREES IN PARKS AND ADJACENT PLANTING STRIPS		
HEAVY EQUIPMENT OPERATION	ROOT PROTECTION	NOTIFY THE ENGINEER AT LEAST 48 HOURS PRIOR TO ANY CONSTRUCTION ACTIVITIES WITHIN THE DRIP LINE OF ANY TREES. ALL NON-PAVED SURFACES IN ZONE B SUBJECT TO IMPACT (COMPACTION) BY CONSTRUCTION ACTIVITIES SHALL BE PROTECTED WITH 6"-8" OF MULCH LAYER, 3/4" PLYWOOD PANELS OR STEEL PLATES. PROVIDE WOOD PLANKING OR STEEL PANELS UNDER BACKHOE STABILIZERS PLACED ANYWHERE IN ZONE B. NO STORAGE OF MATERIALS OR EQUIPMENT SHALL BE ALLOWED IN ZONE B WITHOUT PROPER SURFACE PROTECTION AND WRITTEN AUTHORIZATION FROM THE ENGINEER. RETAIN EXISTING PAVING DURING CONSTRUCTION AS LONG AS PRACTICABLE AND SCHEDULE PAVEMENT REPLACEMENT TO MINIMIZE EXPOSURE OF SURFACE ROOTS TO DRYING, EQUIPMENT DAMAGE, COMPACTION, ETC.. EXPOSURE FOR LONGER THAN 48 HOURS REQUIRES MULCH APPLICATION.
	CANOPY PROTECTION	OVERHEAD BRANCHING LIKELY TO BE DAMAGED BY EQUIPMENT OPERATION SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER. PREVENTIVE MEASURES (PRUNING OR TIE-BACK OF BRANCHES) AS APPROVED BY THE ENGINEER SHALL BE PROPERLY EXECUTED BEFORE COMMENCEMENT OF THE CONSTRUCTION ACTIVITIES.
	TRUNK PROTECTION	PROVIDE 6' MIN. HEIGHT CHAIN LINK CONSTRUCTION FENCING FOR INDIVIDUAL FENCE INSTALLATIONS AROUND EACH TREE OR AROUND GROUPINGS OF TREES AS DIRECTED BY THE ENGINEER WITHIN THE WORK AREA. OPTIONAL 4' HIGH ORANGE OR GREEN PVC WEB FENCING MAY BE USED IN SOME APPLICATIONS ONLY AS APPROVED BY THE ENGINEER.
TRENCHING AND/OR TUNNELING		WHEN TRENCHING FOR UTILITIES WITHIN ZONE B, HAND DIG OR TUNNEL AROUND ROOTS WHENEVER POSSIBLE. CUT ALL ROOTS CLEANLY WITH SHARP PRUNERS OR SAWS. IF ROOTS OVER 2" DIA. ARE ENCOUNTERED, NOTIFY THE ENGINEER FOR INSPECTION AND APPROVAL PRIOR TO PROCEEDING. ROOT PRUNE ONLY AS DIRECTED BY THE ENGINEER. AIR OR WATER-SPADING, OR BORING MAY BE REQUIRED BY THE ENGINEER IN ZONE A OR ZONE B IF CONDITIONS WARRANT. FOR INSTALLATION OF SILT FENCING, DO NOT TRENCH IN ZONE A OR ZONE B. INSTEAD SECURE TOE OF FENCING WITH DRAIN ROCK OR SUITABLE SOIL AND MONITOR/MAINTAIN FENCING AS NECESSARY TO PREVENT EROSION.

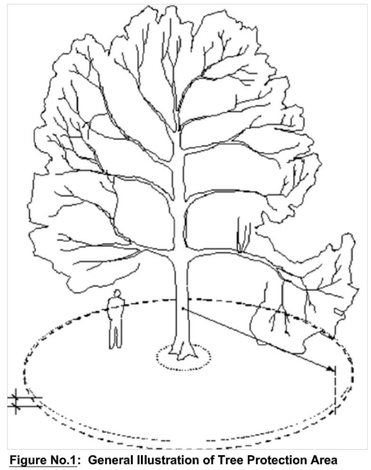


Figure No.1: General Illustration of Tree Protection Area

Figure Notes:

A: Install / maintain a 12 inches/300mm depth of woodchip mulch (absolute minimum)

B: Install / maintain a 12 inches/300mm woodchip mulch from the outer limit of branch spread or specified tree protection area; whichever is furthest.
Protection hoarding is required, unless otherwise stated, and should be installed prior to site works; install at point **B** around the edge of the protection area.

C: Maintain area at base of trunk free of mulch. As a guide use the following formula to determine the distance:
Girth X 0.5 = distance mulch should be kept away from the trunk

D: Maintain an absolute uniform minimum 12 inches / 300mm depth of woodchips. No construction / development equipment, materials, and or spoil within area **B** described above and illustrated in Figure No.1, General Illustration of Tree Protection Area.

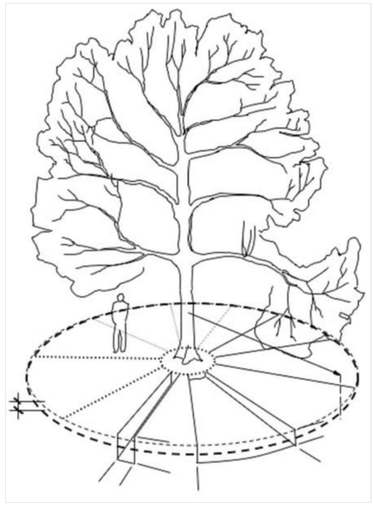


Figure No.2: Radial Trenching and Root Re-invigoration / Soil Amendment Treatment

Figure Notes:

A: The labeling **a** - **c** refers to radial trenching. The radial trench shall be 18 inches depth.

B: Trench width shall be 12 inches.

C: Trench length shall be to the limits of the dripline (Zone B) or further as specified by (identify). The trench shall be backfilled with 50% compost and 50% native soil. Water should be applied to each trench once backfill is completed. The trench shall be 3 feet from the trunk base. This treatment is to be repeated for the entire tree with radial trenches installed for the entire area beneath and within the dripline (Zone B and A).

D: A two inch layer of compost is to be applied to the entire area beneath and within the dripline (Zone B and A)

E: Root invigoration treatment refers to the areas **e** and also **f** and **g** in Figure No.2 (above). The root invigoration shall be to a depth of 12 inches. A two-inch layer of compost shall be pneumatically (air) incorporated into this treatment area identified as **e** in Figure No.0 (above). Areas should have water applied following treatment.

F: A maximum of 50% surface area beneath the dripline and within (Zone A and B) shall be treated in a single growth period.

G: Treatment depth is limited to 12 inches unless otherwise specified by (identify).

TREE & PLANT PROTECTION GENERAL NOTES:

The term "the Engineer" shall include but not be limited to qualified professionals such as Seattle Parks & Recreation (SPR) Urban Forester or other International Society of Arboriculture (ISA) Certified Arborist associated with the project.

The text contained in Section 01 56 39 - Temporary Tree & Plant Protection should be included onto a separate drawing sheet and not combined with the C.S.C. sheet(s).

Temporary Construction Security Fencing shall be provided and maintained according to SPR Std. Specification Section 01 56 26 - Temporary Fencing.

Notice Signs shall be posted on fencing @ 15 Feet O.C. - and shall read "<<<WARNING>>> Protective Tree Fencing, Do Not Enter, Move or Remove - Contact SPR Urban Forester, Ph. #684-4108".

The Fencing shall define and demarcate a specific protection area for each tree or group of trees and shall be fixed in position. The barriers shall remain until all construction Work has been completed and only removed with the approval of the Engineer.

Construction Trailers and all Construction Traffic must remain outside the fenced protection areas at all times.

All new underground utilities, drainage or irrigation lines shall be routed outside the tree protection zone. If lines must traverse the protection area, they shall be tunnelled, bored & jacked or air-spade within the protection areas per Specification Section 01 56 39, Part 3.03.

No construction materials, spoils, waste, washout / wastewater (i.e. cement) or equipment may be deposited, stored, or parked within the tree protection zone (fenced area) at any time.

Additional tree pruning required for clearance during construction shall be performed by a qualified ISA Certified Arborist and not by construction personnel per Specification Section 01 56 39 Part 3.02 Above-grade Work. Also refer to the City of Seattle Standard Specifications which cite the American National Standards Institute (ANSI) A300 pruning standards.

During construction activities, if injury to any tree should occur, the SPR Urban Forester or the Arborist should evaluate it as soon as possible so that appropriate treatments can be applied. No appropriate treatment shall be applied without the prior approval from the certified arborist.

All trees shall be irrigated at least three times per week over the duration of the project for the period of June 1-September 31. Irrigation must wet the soil within the tree protection zone to a depth of 24 inches.

Before grading or trenching, pad preparation, or excavation for foundations, footings, or walls, trees shall be root pruned 12 inches outside the tree protection area by cutting all roots cleanly to a depth of 24 inches. Roots shall be cut by manually digging a trench and cutting exposed roots with a saw, vibrating knife, rock saw, narrow trencher with sharp blades, or other approved root-pruning equipment.

Within the protection area any roots damaged during grading or construction shall be exposed to sound tissue and cut cleanly with a saw per Section 01 56 39, Part 3.03, B.

Spoil from trenches or other excavations shall not be placed within the specified tree protection area, either temporarily or permanently.

Within Zone A, B, or C of the protection area the Engineer's approval is required for any use/access. Permission for use/access requires surface protection for all unfenced, unpaved surfaces within Zone A, B or C.

Surface Protection Measures (to be applied to Zones A, B and C):

1. Mulch layer 12 inch depth with a geo-textile fabric underlay (normal protection area, light access, storage, equipment operation).
2. 4x8 sheets of ¾ inch plywood (storage).
3. Steel plates (equipment operation, access bridging over root zones).
4. 4 - 8 inch quarry spall, with a geo-textile fabric underlay to a minimum 12 inch depth (construction access or haul routes).
5. Irrigation, as previously specified shall be applied to un-affected areas within the entire tree protection area as specified.

Root re-invigoration/soil amendments and Radial Trenching of specified trees may require this treatment. Exposed and available rooting areas should have all ground covers manually removed (i.e. grubbing of turfgrass). The soils shall have a root invigoration treatment that will de-compact and allow for the incorporation of compost. This is achieved by using a pneumatic air wand. The use of a compost blend designed for soil enhancement, is required for all areas affected. This treatment should be completed to a depth of 18 inches for radial trenching and 12 inches for root reinvigoration and shall include, at a minimum, the area within the dripline (zones A and B).

TREE PROTECTION

SCALE: NTS 1

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NO.	REVISION — AS BUILT	DATE
3		
2		
1		

REVIEWED: _____ PARK ENGINEER _____ DATE

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SHANNON MARIE PODGORSKI STATE OF WASHINGTON 58052 REGISTERED PROFESSIONAL ENGINEER

Seattle Parks & Recreation

GAS WORKS PARK

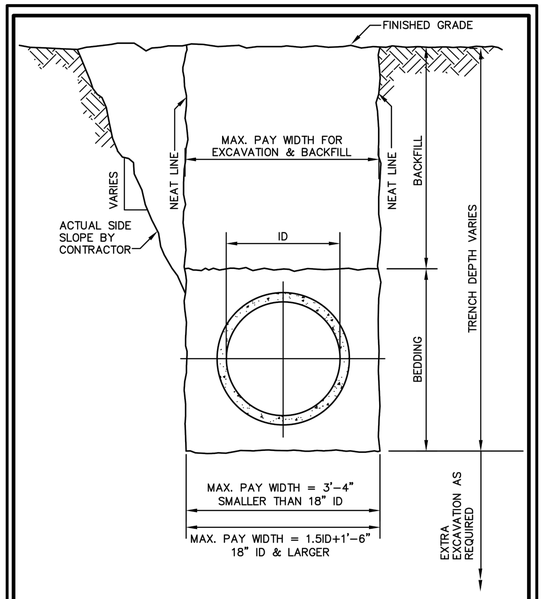
Gas Works Park - Comfort Station & East Entry/ADA - 95% CD

CSC DETAILS

DESIGNED
DRAWN SP
CHECKED RB
ORDINANCE NO. BD
GW CS - 124590 - 2008 PLF
SDOT Sidewalk – 125207 – REET 1
East Entry/ADA – 125207 - REET I
CONTRACT NO. 2055
SCALE AS NOTED

DATE DEC 4, 2020
SHEET 1 OF 1

C-202



TYPICAL TRENCH SECTION
(SANITARY & STORM SEWERS)

City of Seattle Department of Parks & Recreation	TYP. PIPE TRENCH SECTIONS (MAX. PAY WIDTH FOR UNIT PRICE CONTRACTS) STD. DETAIL NO. 33 49 26.13

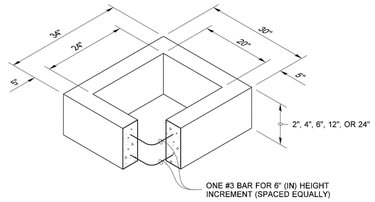
NOTE: ALL SOILS FROM TRENCH EXCAVATION SHALL BE CONSIDERED CONTAMINATED AND HANDLED AND DISPOSED OF IN ACCORDANCE WITH SPECIFICATIONS.

TRENCH SECTION

SCALE: NTS (3)

DRAWN BY: LISA CYFORD

FRAME AND VANED GRATE



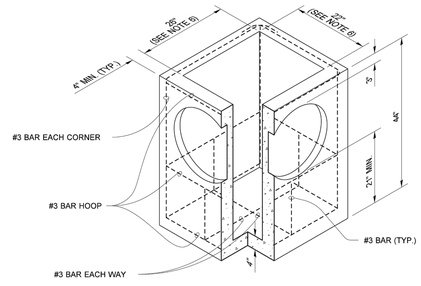
RECTANGULAR ADJUSTMENT SECTION

PIPE ALLOWANCES	
PIPE MATERIAL	**MAXIMUM INSIDE DIAMETER (INCHES)**
REINFORCED OR PLAIN CONCRETE	12"
ALL METAL PIPE	15"
CPSSP ★ **(STD. SPEC. SECT. 9-05.20)**	12"
SOLID WALL PVC **(STD. SPEC. SECT. 9-05.12(1))**	15"
PROFILE WALL PVC **(STD. SPEC. SECT. 9-05.12(2))**	15"

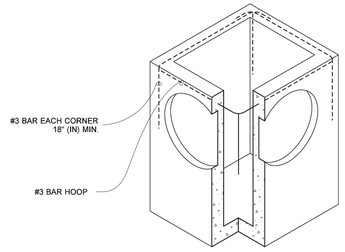
★ CORRUGATED POLYETHYLENE STORM SEWER PIPE

NOTES

1. As acceptable alternatives to the rebar shown in the **PRECAST BASE SECTION**, fibers (placed according to the Standard Specifications), or wire mesh having a minimum area of 0.12 square inches per foot shall be used with the minimum required rebar shown in the ALTERNATIVE **PRECAST BASE SECTION**. Wire mesh shall not be placed in the knockouts.
2. The knockout diameter shall not be greater than 20" (in). Knockouts shall have a wall thickness of 2" (in) minimum to 2.5" (in) maximum. Provide a 1.5" (in) minimum gap between the knockout wall and the outside of the pipe. After the pipe is installed, fill the gap with joint mortar in accordance with **Standard Specification Section 9-04.3**.
3. The maximum depth from the finished grade to the lowest pipe invert shall be 5' (ft).
4. The frame and grate may be installed with the flange down, or integrally cast into the adjustment section with flange up.
5. The Precast Base Section may have a rounded floor, and the walls may be sloped at a rate of 1 : 24 or steeper.
6. The opening shall be measured at the top of the **Precast Base Section**.
7. All pickup holes shall be grouted full after the basin has been placed.
8. All connections to catch basins shall use sand collars.



PRECAST BASE SECTION



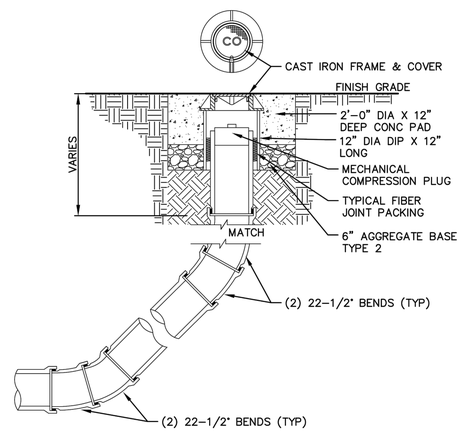
(SEE NOTE 1)

ALTERNATIVE PRECAST BASE SECTION

CB TYPE 1

SCALE: NTS (2)

REV DATE: MAR 2017



Seattle Parks & Recreation	CLEAN OUT STD. DETAIL NO. 33 49 23.29

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

CLEANOUT

SCALE: NTS (1)

JULIE HEILMAN — STATE OF WASHINGTON — 41879 — REGISTERED PROFESSIONAL ENGINEER

Heilman, Julie
Jan 25 2017 2:53 PM
cosign

CATCH BASIN TYPE 1

STANDARD PLAN B-5.20-02

SHEET 1 OF 1 SHEET

APPROVED FOR PUBLICATION
Carpenter, Jeff
Jan 26 2017 6:48 AM
cosign
STATE DESIGN ENGINEER
Washington State Department of Transportation

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NO.	REVISION – AS BUILT	DATE
3		
2		
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REVIEWED:
PARK ENGINEER _____ DATE _____

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SHANNON MARIE PODOROSKI — STATE OF WASHINGTON — 58052 — REGISTERED PROFESSIONAL ENGINEER

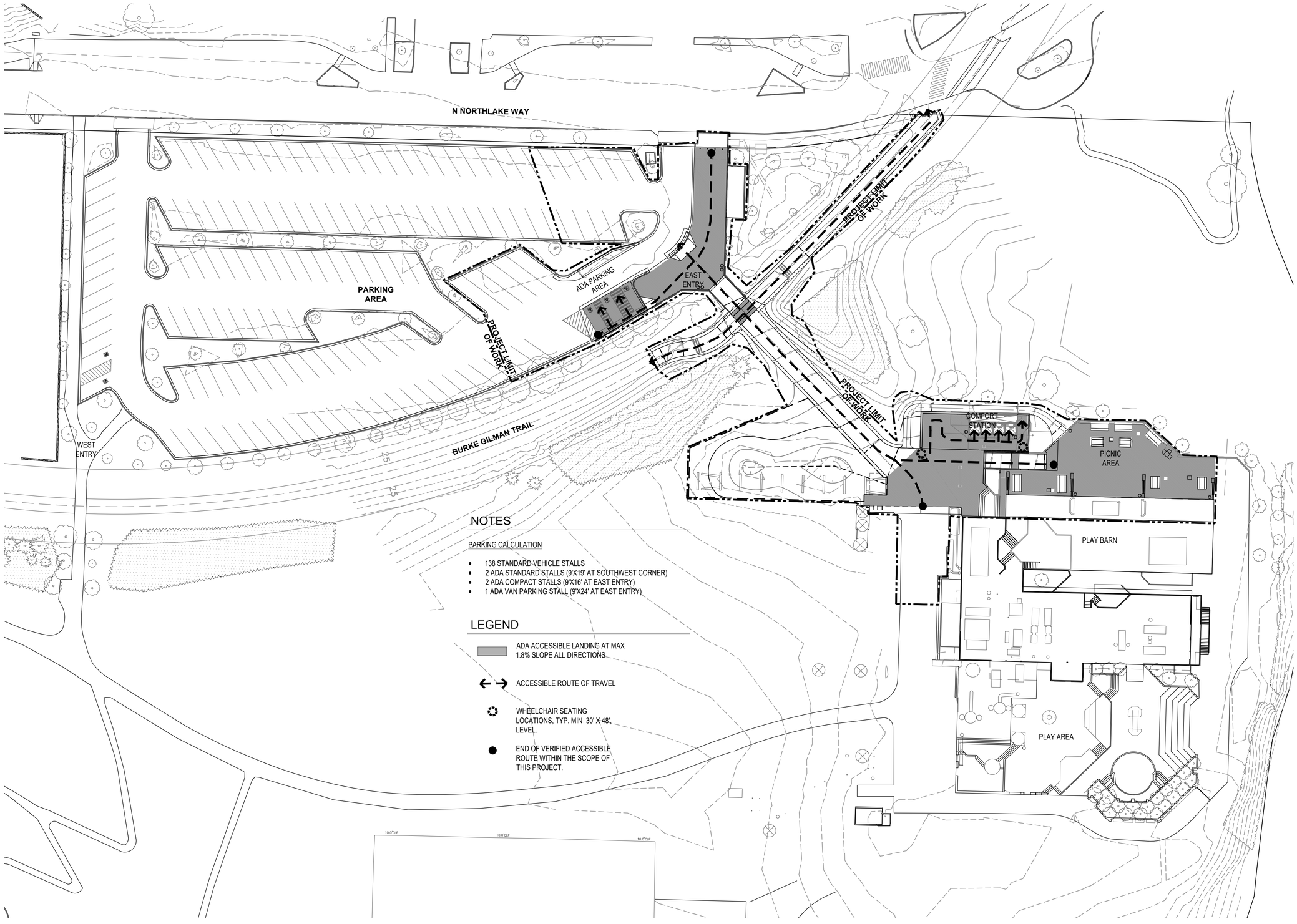
Seattle Parks & Recreation

GAS WORKS PARK

Gas Works Park - Comfort Station & East Entry/ADA - 95% CD

DRAINAGE & UTILITY DETAILS

DESIGNED	SP	DATE	DEC 4, 2020
DRAWN	RB	SHEET	1 OF
CHECKED	BD		
ORDINANCE NO.	GW CS - 124590 - 2008 PLF SDOT Sidewalk – 125207 – REET 1 East Entry/ADA – 125207 - REET I		C-203
CONTRACT NO.	2055		
SCALE	AS NOTED		



NOTES

PARKING CALCULATION

- 138 STANDARD VEHICLE STALLS
- 2 ADA STANDARD STALLS (9'X19' AT SOUTHWEST CORNER)
- 2 ADA COMPACT STALLS (9'X16' AT EAST ENTRY)
- 1 ADA VAN PARKING STALL (9'X24' AT EAST ENTRY)

LEGEND

ADA ACCESSIBLE LANDING AT MAX 1.8% SLOPE ALL DIRECTIONS

ACCESSIBLE ROUTE OF TRAVEL

WHEELCHAIR SEATING LOCATIONS, TYP. MIN 30" X 48", LEVEL.

END OF VERIFIED ACCESSIBLE ROUTE WITHIN THE SCOPE OF THIS PROJECT.

0 30' 60' 120'

SCALE: 1" = 30'-0"

1 OVERALL SITE PLAN & ADA ROUTE OF TRAVEL PLAN

SCALE: 1"=30'-0"

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STATE OF WASHINGTON
REGISTERED LANDSCAPE ARCHITECT
ERIC JOHN STREEBY
LICENSE NO. 1436
EXPIRES ON 01/24/2022

Seattle Parks & Recreation

GAS WORKS PARK

Gas Works Park - Comfort Station & East Entry/ADA - 95% CD

OVERALL SITE PLAN

DESIGNED
DRAWN
CHECKED

DATE December 4, 2020

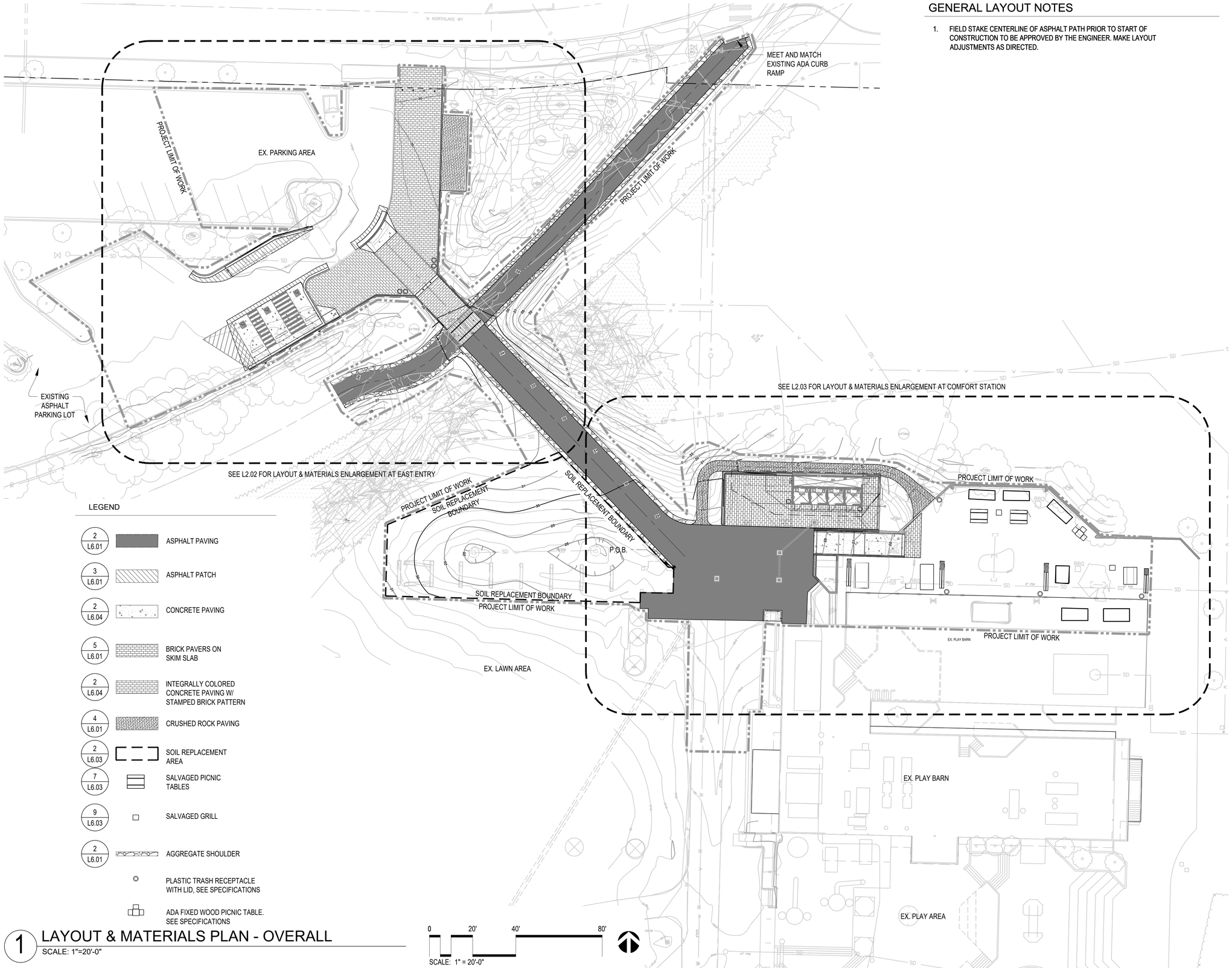
SHEET ____ OF ____

ORDINANCE NO.
GW CS - 124590 - 2008 PLF
SDOT Sidewalk – 125207 – REET 1
East Entry/ADA – 125207 - REET I

CONTRACT NO. 2055

SCALE AS NOTED

L1.01



GENERAL LAYOUT NOTES

1. FIELD STAKE CENTERLINE OF ASPHALT PATH PRIOR TO START OF CONSTRUCTION TO BE APPROVED BY THE ENGINEER. MAKE LAYOUT ADJUSTMENTS AS DIRECTED.

LEGEND

- 2 / L6.01 — ASPHALT PAVING
- 3 / L6.01 — ASPHALT PATCH
- 2 / L6.04 — CONCRETE PAVING
- 5 / L6.01 — BRICK PAVERS ON SKIM SLAB
- 2 / L6.04 — INTEGRALLY COLORED CONCRETE PAVING W/ STAMPED BRICK PATTERN
- 4 / L6.01 — CRUSHED ROCK PAVING
- 2 / L6.03 — SOIL REPLACEMENT AREA
- 7 / L6.03 — SALVAGED PICNIC TABLES
- 9 / L6.03 — SALVAGED GRILL
- 2 / L6.01 — AGGREGATE SHOULDER
- PLASTIC TRASH RECEPTACLE WITH LID, SEE SPECIFICATIONS
- ADA FIXED WOOD PICNIC TABLE. SEE SPECIFICATIONS

1 LAYOUT & MATERIALS PLAN - OVERALL
SCALE: 1"=20'-0"

0 20' 40' 80'
SCALE: 1" = 20'-0"

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NO.	REVISION - AS BUILT	DATE
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STATE OF WASHINGTON
REGISTERED LANDSCAPE ARCHITECT
ERIC JOHN STREEBY
LICENSE NO. 1436
EXPIRES ON 01/24/2022

Seattle Parks & Recreation

GAS WORKS PARK

Gas Works Park - Comfort Station & East Entry/ADA - 95% CD

LAYOUT & MATERIALS PLAN - OVERALL

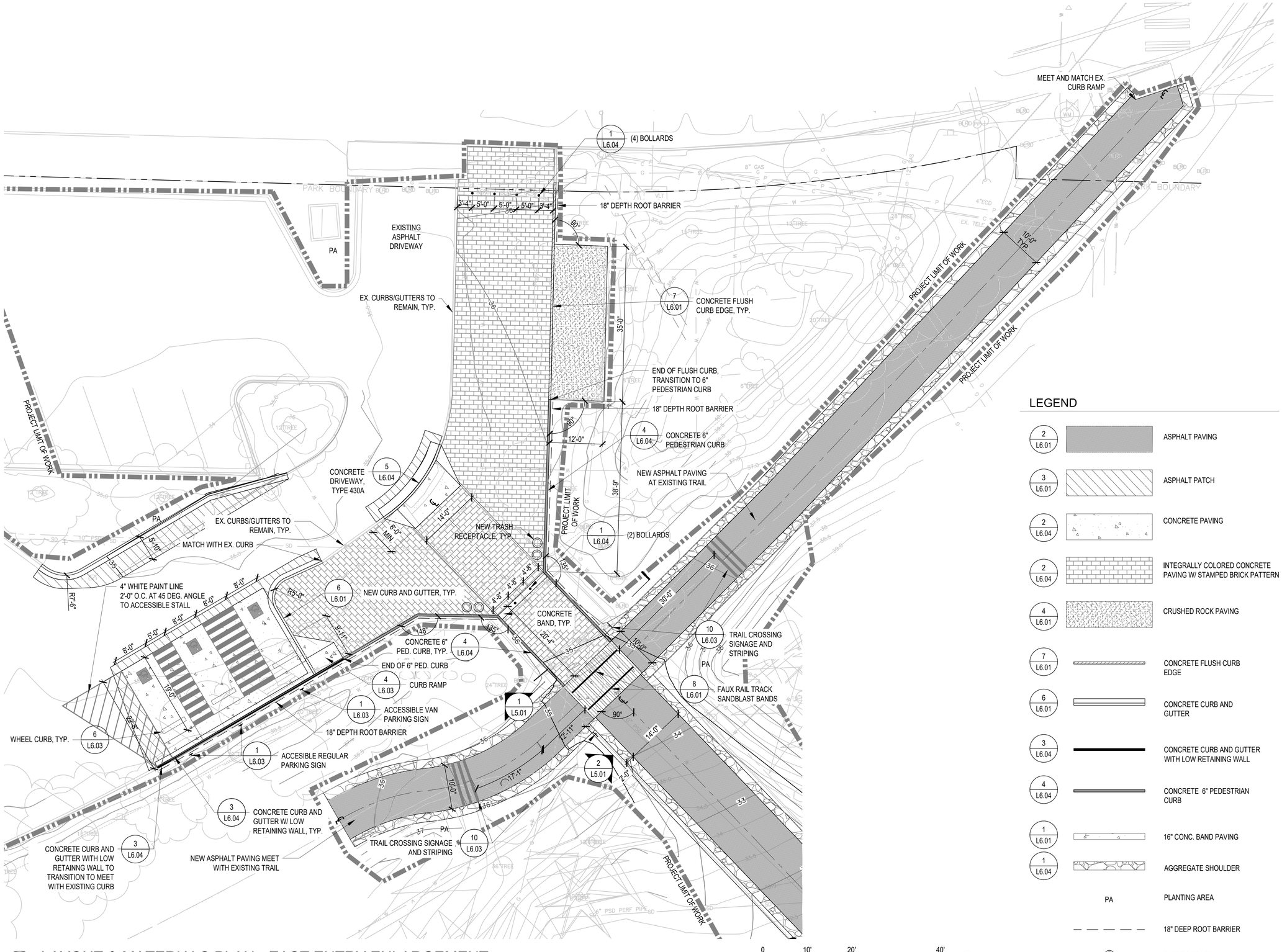
DESIGNED _____ DATE December 4, 2020
DRAWN _____ SHEET ____ OF ____
CHECKED _____

ORDINANCE NO.
GW CS - 124590 - 2008 PLF
SDOT Sidewalk – 125207 – REET 1
East Entry/ADA – 125207 - REET I

CONTRACT NO. 2055

SCALE AS NOTED

L2.01



1 LAYOUT & MATERIALS PLAN - EAST ENTRY ENLARGEMENT

SCALE: 1"=10'-0"

0 10' 20' 40'

SCALE: 1" = 10'-0"

LEGEND

2 L6.01	ASPHALT PAVING
3 L6.01	ASPHALT PATCH
2 L6.04	CONCRETE PAVING
2 L6.04	INTEGRALLY COLORED CONCRETE PAVING W/ STAMPED BRICK PATTERN
4 L6.01	CRUSHED ROCK PAVING
7 L6.01	CONCRETE FLUSH CURB EDGE
6 L6.01	CONCRETE CURB AND GUTTER
3 L6.04	CONCRETE CURB AND GUTTER WITH LOW RETAINING WALL
4 L6.04	CONCRETE 6" PEDESTRIAN CURB
1 L6.01	16" CONC. BAND PAVING
1 L6.04	AGGREGATE SHOULDER
PA	PLANTING AREA
	18" DEEP ROOT BARRIER
	PLASTIC TRASH RECEPTACLE WITH LID, SEE SPECIFICATIONS

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NO.	REVISION - AS BUILT	DATE
3		
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REVIEWED: _____ _____
PARK ENGINEER DATE

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STATE OF WASHINGTON REGISTERED LANDSCAPE ARCHITECT
ERIC JOHN STREEBY
LICENSE NO. 1436
EXPIRES ON 01/24/2022

Seattle Parks & Recreation

GAS WORKS PARK

Gas Works Park - Comfort Station & East Entry/ADA - 95% CD

LAYOUT & MATERIALS PLAN - EAST ENTRY

DESIGNED _____
DRAWN _____
CHECKED _____

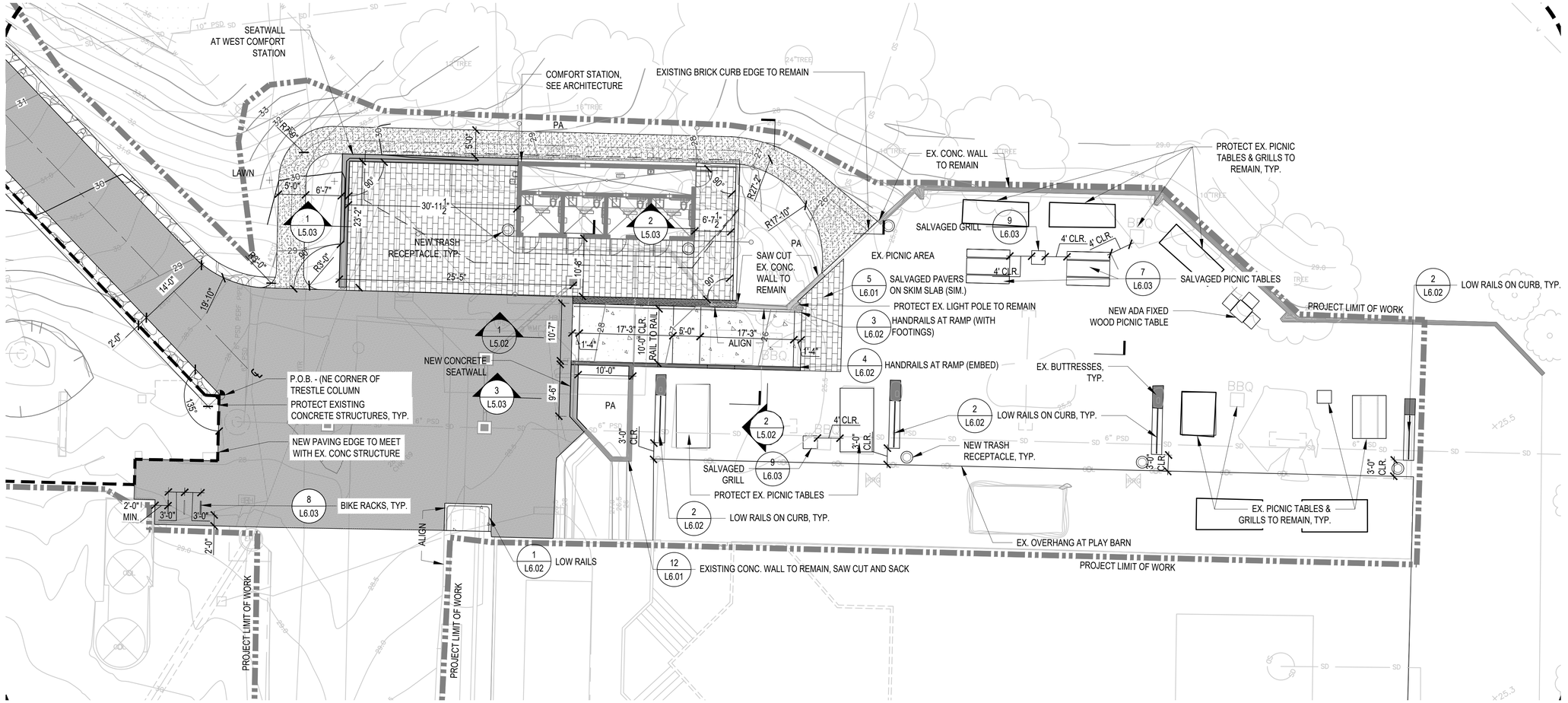
DATE December 4, 2020
SHEET ____ OF ____

ORDINANCE NO.
GW CS - 124590 - 2008 PLF
SDOT Sidewalk – 125207 – REET 1
East Entry/ADA – 125207 - REET I

CONTRACT NO. 2055

SCALE AS NOTED

L2.02



1 LAYOUT & MATERIALS PLAN - COMFORT STATION ENLARGEMENT

SCALE: 1"=10'-0"

0 10' 20' 40'

SCALE: 1" = 10'-0"

LEGEND

2 / L6.01	ASPHALT PAVING
2 / L6.04	CONCRETE PAVING
5 / L6.01	BRICK PAVERS ON SKIM SLAB
4 / L6.01	CRUSHED ROCK PAVING
2 / L6.04	INTEGRALLY COLORED CONCRETE PAVING W/ STAMPED BRICK PATTERN
2 / L6.03	SOIL REPLACEMENT AREA
9 / L6.01	16" CONC. SEAT WALL
10 / L6.01	16" CONC. RETAINING SEAT WALL
11 / L6.01	8" CONC. RETAINING WALL
12 / L6.01	EXISTING RETAINING WALL TO REMAIN
1 / L6.01	16" CONC. BAND PAVING
1 / L6.04	AGGREGATE SHOULDER
7 / L6.03	SALVAGED PICNIC TABLES
9 / L6.03	SALVAGED GRILL
	PLASTIC TRASH RECEPTACLE WITH LID, SEE SPECIFICATIONS
PA	PLANTING AREA
	ADA FIXED WOOD PICNIC TABLE, SEE SPECIFICATIONS

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Seattle Parks & Recreation

GAS WORKS PARK

Gas Works Park - Comfort Station & East Entry/ADA - 95% CD

LAYOUT & MATERIALS PLAN - COMFORT STATION

DESIGNED _____ DATE December 4, 2020
DRAWN _____
CHECKED _____ SHEET ____ OF ____

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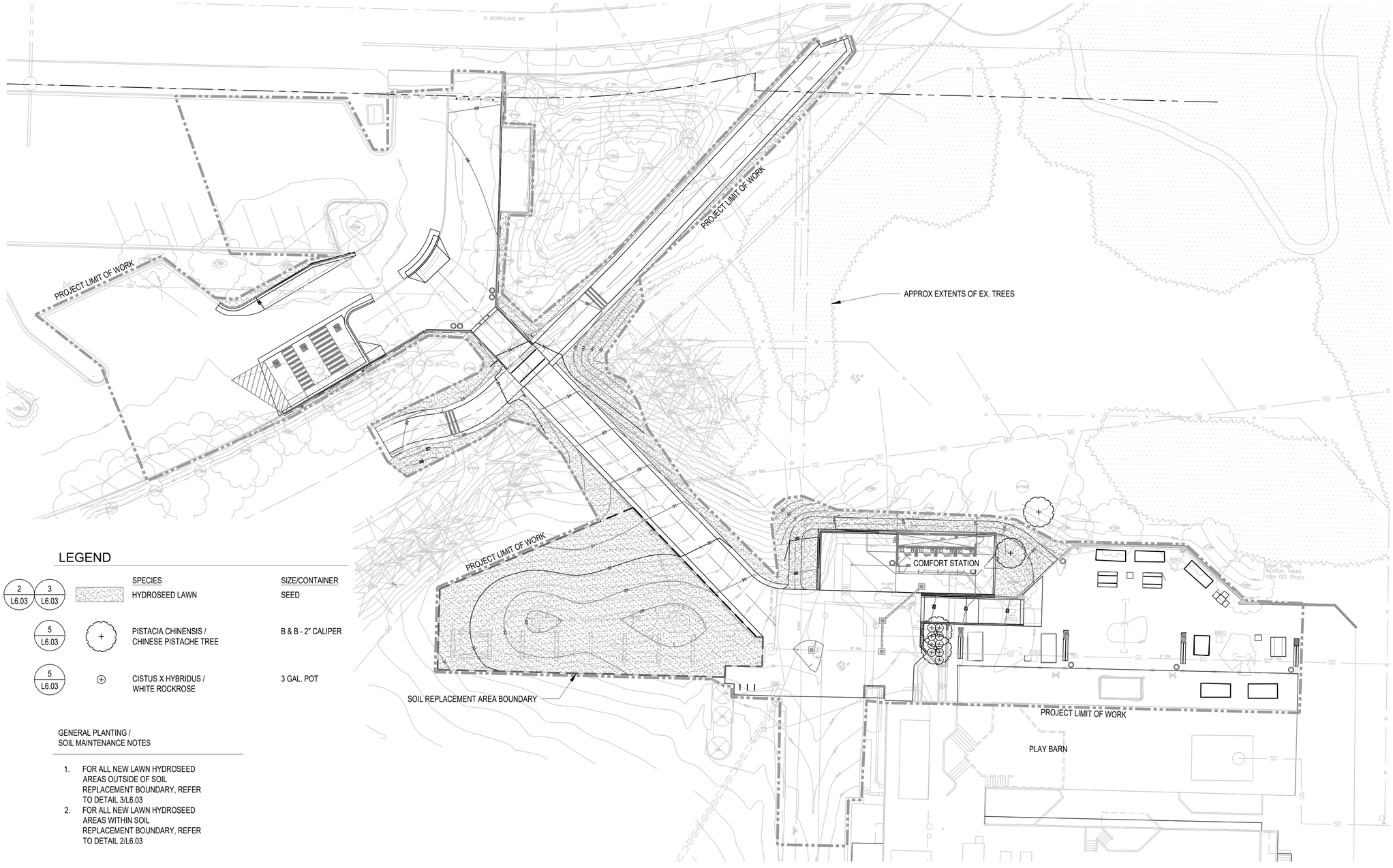

LEGEND

	SPECIES	SIZE/CONTAINER
2 / L6.03 — 3 / L6.03	HYDROSEED LAWN	SEED
5 / L6.03	PISTACIA CHINENSIS / CHINESE PISTACHE TREE	B & B - 2" CALIPER
5 / L6.03	CISTUS X HYBRIDUS / WHITE ROCKROSE	3 GAL. POT

GENERAL PLANTING / SOIL MAINTENANCE NOTES

1. FOR ALL NEW LAWN HYDROSEED AREAS OUTSIDE OF SOIL REPLACEMENT BOUNDARY, REFER TO DETAIL 3/L6.03
2. FOR ALL NEW LAWN HYDROSEED AREAS WITHIN SOIL REPLACEMENT BOUNDARY, REFER TO DETAIL 2/L6.03

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

0 20' 40' 80'
SCALE: 1" = 20'-0"

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PLANTING PLAN

DESIGNED _____ DRAWN _____ CHECKED _____
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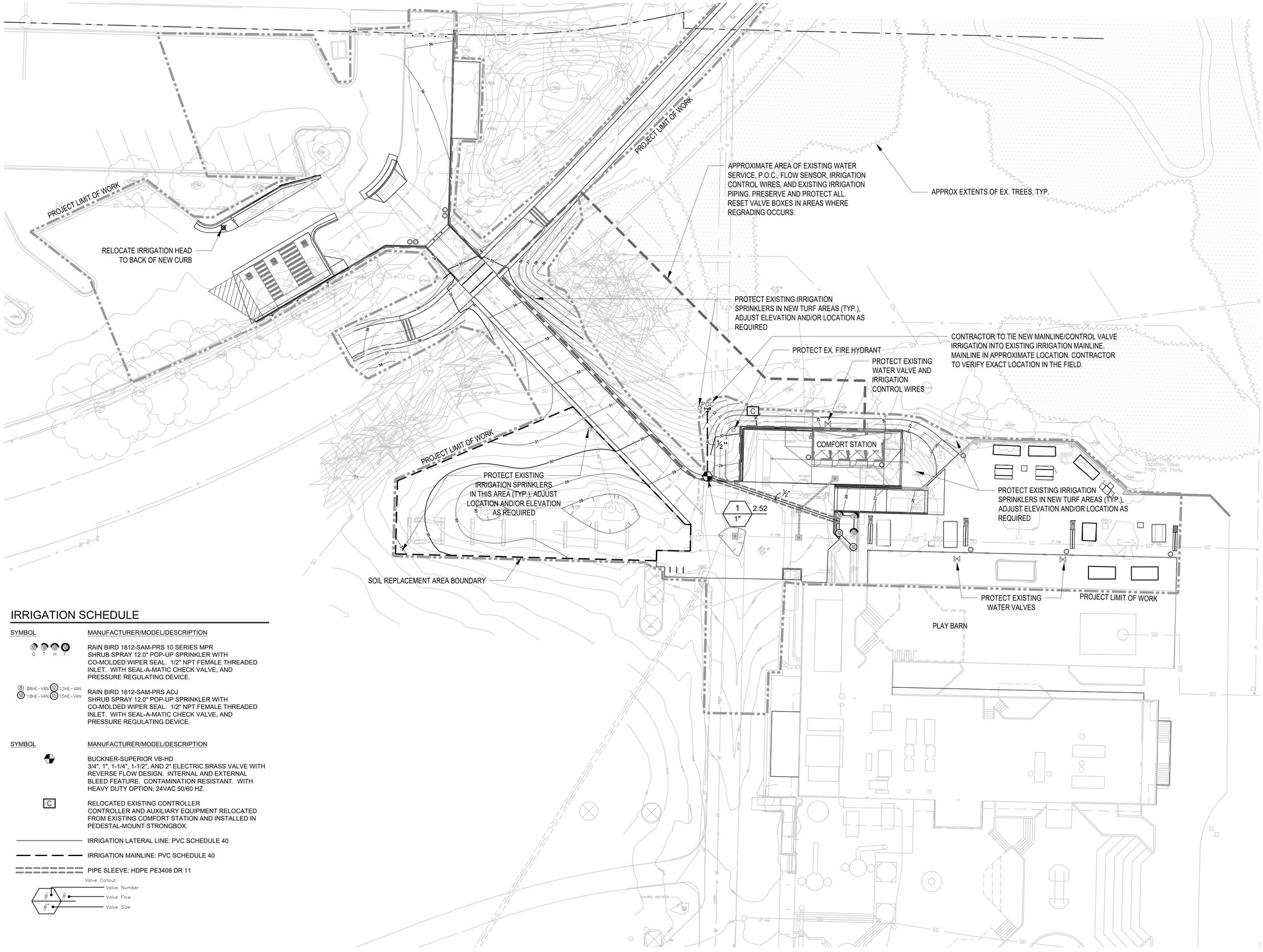

IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION
Q T H F	RAIN BIRD 1812-SAM-PRS 10 SERIES MPR SHRUB SPRAY 12.0" POP-UP SPRINKLER WITH CO-MOLDED WIPER SEAL. 1/2" NPT FEMALE THREADED INLET. WITH SEAL-A-MATIC CHECK VALVE, AND PRESSURE REGULATING DEVICE.
8 8HE–VAN 12 12HE–VAN 10 10HE–VAN 15 15HE–VAN	RAIN BIRD 1812-SAM-PRS ADJ SHRUB SPRAY 12.0" POP-UP SPRINKLER WITH CO-MOLDED WIPER SEAL. 1/2" NPT FEMALE THREADED INLET. WITH SEAL-A-MATIC CHECK VALVE, AND PRESSURE REGULATING DEVICE.

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION
	BUCKNER-SUPERIOR VB-HD 3/4", 1", 1-1/4", 1-1/2", AND 2" ELECTRIC BRASS VALVE WITH REVERSE FLOW DESIGN. INTERNAL AND EXTERNAL BLEED FEATURE. CONTAMINATION RESISTANT. WITH HEAVY DUTY OPTION, 24VAC 50/60 HZ.
C	RELOCATED EXISTING CONTROLLER CONTROLLER AND AUXILIARY EQUIPMENT RELOCATED FROM EXISTING COMFORT STATION AND INSTALLED IN PEDESTAL-MOUNT STRONGBOX.

IRRIGATION LATERAL LINE: PVC SCHEDULE 40

IRRIGATION MAINLINE: PVC SCHEDULE 40

PIPE SLEEVE: HDPE PE3408 DR 11

Valve Callout

Valve Number
Valve Flow
#" Valve Size

1 IRRIGATION PLAN

SCALE: 1"=20'-0"

0 20' 40' 80'

SCALE: 1" = 20'-0"

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DRAWN
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SCALE AS NOTED

L4.02

1. THE PURPOSE AND INTENT OF THESE IRRIGATION DRAWING IS TO SIMPLIFY AND CONJOIN THE EXISTING IRRIGATION SYSTEM AT THE EXISTING COMFORT STATION AND AREAS ADJACENT TO THE EXISTING COMFORT STATION TO THE IRRIGATION SYSTEM AT THE NEW COMFORT STATION AND PLANTING BED TO THE NORTH OF THE CONCRETE STEPS LEADING TO THE PICNIC AREA AND HAVE ONE CONTIGUOUS IRRIGATION SYSTEM. THE NEW IRRIGATION CONTROLLER IS TO BE LOCATED WITHIN A PEDESTAL/STRONGBOX AT THE NEW COMFORT STATION AND ALL OF THE EXISTING IRRIGATION WIRES ROUTE TO THE NEW LOCATION.

2. CONSTRUCTION OF THE IMPROVEMENTS SHOWN ON THIS PLAN REQUIRE CONNECTIONS TO, AND PARTIAL DEMOLITION OF THE EXISTING IRRIGATION SYSTEM. UNDER THIS CONTRACT MAKE ANY REQUIRED MODIFICATIONS TO LAYOUT SHOWN TO CONFORM TO ACTUAL AS-BUILT CONDITIONS OF EXISTING SYSTEM AT NO ADDITIONAL COST.

3. LOCATE ALL UNDERGROUND UTILITIES PRIOR TO BEGINNING OF WORK. CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE TO UNDERGROUND UTILITIES CAUSED BY INSTALLATION OF IRRIGATION SYSTEM.

4. CONTRACTOR IS TO VERIFY AVAILABLE PRESSURE AND FLOW AT POINT OF CONNECTION PRIOR TO INSTALLATION OF IRRIGATION SYSTEM EQUIPMENT AND NOTIFY LANDSCAPE ARCHITECT WITH VERIFICATION FIGURES. FAILURE TO NOTIFY LANDSCAPE ARCHITECT WILL RESULT IN CONTRACTOR TAKING RESPONSIBILITY FOR ANY ALTERATIONS TO THE PLAN DUE TO VARIATIONS OF PRESSURE OR FLOW AT HIS/HER OWN RISK.

7. PROVIDE TEMPORARY CONTINUOUS SERVICE DURING THE DURATION OF THE CONSTRUCTION PROJECT TO WATER ALL EXISTING AREAS THAT MAY BE AFFECTED DURING CONSTRUCTION. HAND WATER ANY AREAS TEMPORARILY THAT DO NOT RECEIVE WATER DURING PROJECT DURATION.

8. REMOVE ALL IRRIGATION PIPING, SLEEVING OR HEADS IN AREAS TO BE MODIFIED OR DEMOLISHED. EXISTING WIRING MAY BE EXTENDED PROVIDED THAT SPLICES ARE LOCATED ON THE AS-BUILT AND INSTALLED IN A VALVE BOX USING WATER TIGHT CONNECTORS AS SPECIFIED. FOR SPLICE VALVE BOXES, USE NDS PRO SERIES JUMBO VALVE BOX. IRRIGATION HEADS MAY BE RE-USED PROVIDED THAT THEY ARE THE SAME AS SPECIFIED FOR THE NEW WORK AND THAT THEY ARE IN PERFECT OPERATING CONDITION. IRRIGATION PIPING MAY NOT BE RE-USED.

9. DURING INSTALLATION OF THE WORK BY GENERAL OR SUBCONTRACTORS, NOTE THE LOCATION OF ANY EXISTING IRRIGATION INFRASTRUCTURE ENCOUNTERED AND CLEARLY NOTE ON NEW RECORD DRAWINGS. NOTIFY THE OWNER OF ANY DAMAGE AND REPAIR DAMAGE IMMEDIATELY.

10. THE LOCATION OF IRRIGATION MAINLINE, LATERAL, SLEEVING, AND VALVES ARE SCHEMATIC ONLY AND SHALL OCCUR IN PLANTING AREAS UNLESS SLEEVING IS SHOWN. MAKE MINOR ADJUSTMENTS AS REQUIRED TO COORDINATE WITH AS-BUILT DIMENSIONS AND CONDITIONS.

11. WHERE SLEEVING IS REQUIRED ACROSS EXISTING ASPHALT, SAW CUT AND EXCAVATE A SMOOTH, STRAIGHT EVEN TRENCH. AFTER INSTALLING THE PIPING OR WIRING, REPAIR ALL PAVING IN ACCORDANCE WITH CIVIL PLANS AND DETAILS. PROVIDE COMPACTION CONSISTENT WITH SURROUNDING AREA AND COORDINATE ALL WORK WITH GENERAL CONTRACTOR.

12. IDENTIFY WIRING RUNS FROM EXISTING CONTROLLER TO ABANDONED ZONES AND PROVIDE ONE LOCATION FOR A SPLICE BOX FOR THESE WIRES. VERIFY EXISTING CONTROLLER LOCATION PRIOR TO WORK. VERIFY EXTRA SPARE WIRES AS AVAILABLE FOR USE. CONTRACTOR TO SHOW THESE LOCATIONS ON THE AS-BUILT DRAWINGS. S.P.R. ELECTRICIANS SHALL REVIEW PROPOSED ROUTING AND LOCATION OF SPLICE BOXES FOR APPROVAL PRIOR TO INSTALLATION.

13. AFTER CONNECTION TO THE SITE MAINLINE OR LATERALS AND BEFORE PLACEMENT OF HEADS, FLUSH THE ENTIRE SYSTEM IN ACCORDANCE WITH THE SPECIFICATIONS INSURING THAT THERE ARE NO CONTAMINANTS WHATSOEVER IN THE NEW OR EXISTING PIPING.

14. AFTER INSTALLATION OF THE NEW WORK, RUN THE ENTIRE SYSTEM THROUGHOUT THE SITE FROM THE CONTROLLER TO MAKE SURE THERE IS WIRING CONTINUITY TO ALL VALVES AND SUFFICIENT FLOW TO ALL ZONES. FLAG ZONE NUMBERS PERMANENTLY ON BOTH SIDES OF ANY SPLICES IN VALVE BOX, AND AT CONTROLLER. TEST AND REPAIR OR REPLACE ANY WIRING WHICH IS SHORTED, DAMAGED, NOT FUNCTIONING WITH NEW WIRE AS SPECIFIED IN PVC SLEEVE, AT CODE REQUIRED DEPTH. IF NOT FEASIBLE, SUBMIT REQUEST TO USE PROVIDE ANOTHER MEANS OF RESTORATION.

15. REPAIR ANY DAMAGE TO LANDSCAPE THROUGHOUT SITE, EVEN BEYOND LIMITS OF WORK IF DAMAGE CAUSED BY CONTRACTORS OPERATIONS, INSTALLATION OR FAILURE TO ADHERE TO REQUIREMENTS NOTED ABOVE.

16. REFER TO IRRIGATION SPECIFICATION AND DETAILS FOR ADDITIONAL REQUIREMENTS.

17. INSTALL MANUAL DRAIN VALVES AT ALL LOW POINTS TO ALLOW FOR SYSTEM WINTERIZATION.

18. CONTRACTOR TO COORDINATE INSTALLATION OF SLEEVING WITH BUILDING CONSTRUCTION AND INSTALLATION OF PAVING AND SIDEWALKS. ALL SLEEVING UNDER PAVED SURFACES SHOWN ON PLANS IS BY CONTRACTOR UNLESS OTHERWISE NOTED. ALL MAINLINES, LATERAL LINES AND CONTROL WIRES UNDER PAVED SURFACES ARE TO BE INSTALLED IN SLEEVING. INSTALL SLEEVING AS PER DETAIL AND SPECIFICATIONS.

19. ALL PIPING, PVC ELECTRICAL SLEEVES, ETC. UNDER PAVING SHALL BE INSTALLED PRIOR TO PAVING WORK. NO TEES, ELLS OR OTHER TURNS IN PIPING SHALL BE LOCATED UNDER PAVING EXCEPT WHERE SHOWN ON DRAWING. CAP ALL ENDS HAND TIGHT PRIOR TO BACKFILL USE PVC SCHEDULE 40 PIPE FOR ALL NON-PRESSURE LATERAL LINE PIPING INSTALLED UNDER PAVED AREAS.

20. CONTRACTOR IS TO PROVIDE ELECTRICAL POWER TO THE NEW CONTROLLER ADJACENT TO THE NEW COMFORT STATION. COORDINATE EXACT LOCATION WITH SEATTLE PARKS.

21. CONTRACTOR SHALL PROVIDE SPARE WIRES PER SPR SPECIFICATIONS SECTION 32.80.00.2.14.

22. INSTALL ALL MATERIALS AND EQUIPMENT AS SHOWN IN DETAILS. USE TEFLON TAPE OR TEFLON PIPE DOPE ON ALL MALE PIPE THREADS ON ALL IRRIGATION SWING JOINT AND VALVE ASSEMBLIES.

23. ALL TRENCHES TO BE PUDDLED AND COMPACTED TO THE SAME DENSITY AS THE UNDISTURBED ADJACENT SOIL.

24. IT IS THE INTENT OF THIS DESIGN THAT ALL IRRIGATION EQUIPMENT BE INSTALLED IN LANDSCAPED AREAS AND WITHIN THE PROPERTY LIMITS. ANY EQUIPMENT SHOWN OUTSIDE OF THESE LIMITS IS SHOWN IN THAT LOCATION FOR THE GRAPHICAL CLARITY ONLY. ALL VALVE BOXES SHALL BE INSTALLED A MINIMUM OF 2'-0" FROM EDGE OF ANY PAVED SURFACES AND A MINIMUM OF 3'-0" FROM THE CENTERLINE OF ANY DRAINAGE SWALES.

IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY	PSI	DETAIL
Q T H F	RAIN BIRD 1812-SAM-PRS 10 SERIES MPR SHRUB SPRAY 12.0" POP-UP SPRINKLER WITH CO-MOLDED WIPER SEAL. 1/2" NPT FEMALE THREADED INLET. WITH SEAL-A-MATIC CHECK VALVE, AND PRESSURE REGULATING DEVICE.	3	30	1/L6.05
8 8BHE-VAN 12 12HE-VAN 10 10HE-VAN 15 15HE-VAN	RAIN BIRD 1812-SAM-PRS ADJ SHRUB SPRAY 12.0" POP-UP SPRINKLER WITH CO-MOLDED WIPER SEAL. 1/2" NPT FEMALE THREADED INLET. WITH SEAL-A-MATIC CHECK VALVE, AND PRESSURE REGULATING DEVICE.	2	30	1/L6.05

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY	DETAIL
	BUCKNER-SUPERIOR VB-HD 3/4", 1", 1-1/4", 1-1/2", AND 2" ELECTRIC BRASS VALVE WITH REVERSE FLOW DESIGN. INTERNAL AND EXTERNAL BLEED FEATURE. CONTAMINATION RESISTANT. WITH HEAVY DUTY OPTION, 24VAC 50/60 HZ.	1	3/L6.05
C	RELOCATED EXISTING CONTROLLER CONTROLLER AND AUXILIARY EQUIPMENT RELOCATED FROM EXISTING COMFORT STATION AND INSTALLED IN PEDESTAL-MOUNT STRONGBOX.	1	2/L6.05
	IRRIGATION LATERAL LINE: PVC SCHEDULE 40	101.7 L.F.	6/L6.05
	IRRIGATION MAINLINE: PVC SCHEDULE 40	30.6 L.F.	6/L6.05
	PIPE SLEEVE: HDPE PE3408 DR 11	60.4 L.F.	

Valve Callout
Valve Number
Valve Flow
Valve Size

VALVE SCHEDULE

NUMBER	MODEL	SIZE	TYPE	GPM	WIRE	PSI	PSI @ POC	PRECIP
1	BUCKNER-SUPERIOR VB-HD Common Wire	1"	SHRUB SPRAY	2.52	51.1 30.6	35.27	36.16	1.44 in/h

CRITICAL ANALYSIS

Generated: 2020-12-09 16:35

P.O.C. NUMBER: 01
Water Source Information: CONNECT TO EXISTING MAINLINE

FLOW AVAILABLE
Point of Connection Size: 1"
Flow Available: 20.24 gpm

PRESSURE AVAILABLE
Static Pressure at POC: 60.00 psi
Pressure Available: 60.00 psi

DESIGN ANALYSIS
Maximum Station Flow: 2.52 gpm
Flow Available at POC: 20.24 gpm
Residual Flow Available: 17.73 gpm

Critical Station: 1
Design Pressure: 30.00 psi
Friction Loss: 1.79 psi
Fittings Loss: 0.18 psi
Elevation Loss: 0.00 psi
Loss through Valve: 3.30 psi
Pressure Req. at Critical Station: 35.27 psi
Loss for Fittings: 0.08 psi
Loss for Main Line: 0.81 psi
Loss for POC to Valve Elevation: 0.00 psi
Loss for Backflow: 0.00 psi
Critical Station Pressure at POC: 36.16 psi
Pressure Available: 60.00 psi
Residual Pressure Available: 23.84 psi

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IRRIGATION SCHEDULES & NOTES

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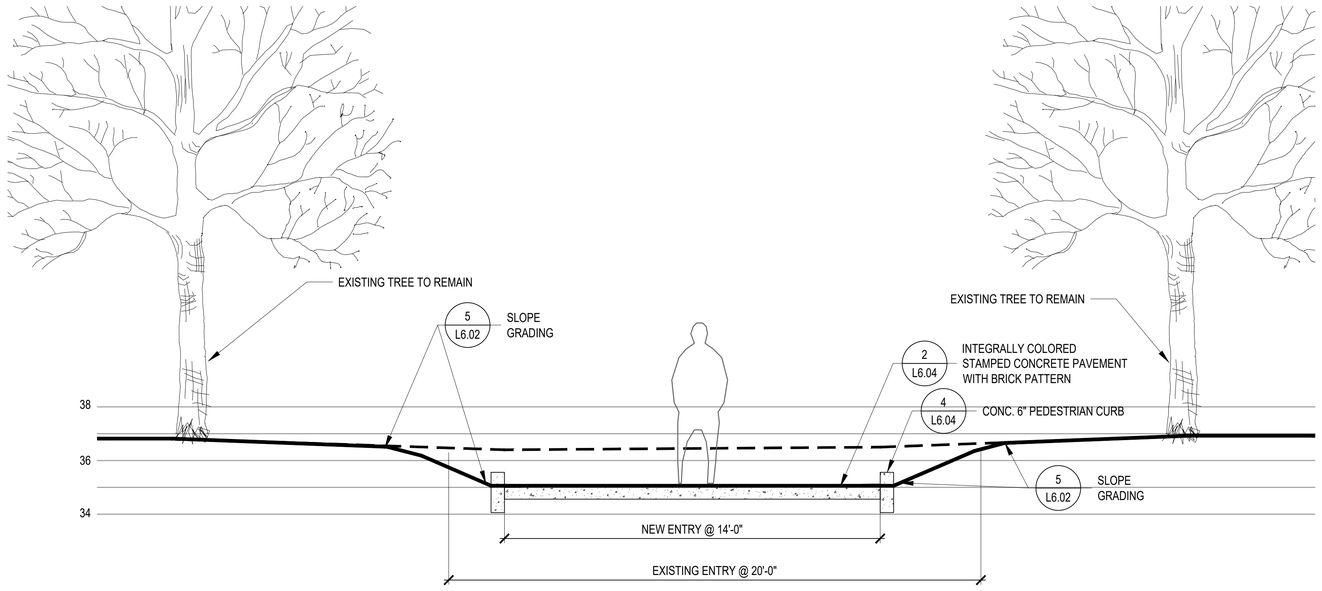
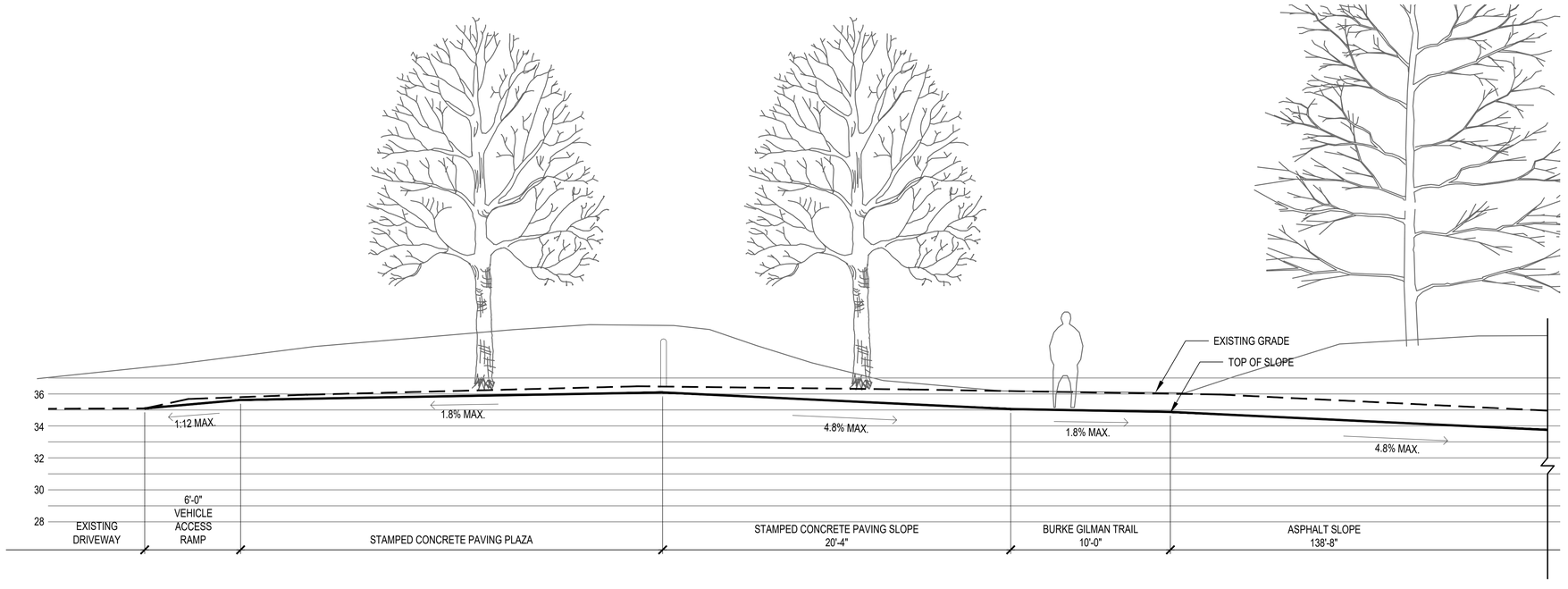


1 SECTION AT EAST ENTRY

SCALE: 3/8"=1'-0"



2 ADA ACCESS SLOPE FROM EAST ENTRY

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

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SECTIONS/ ELEVATIONS

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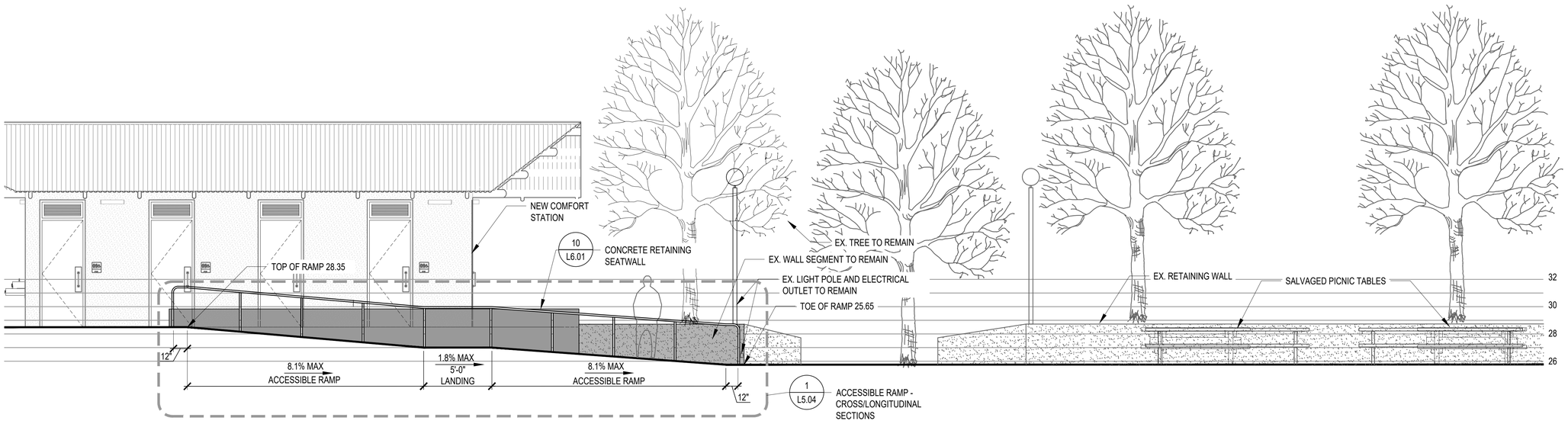
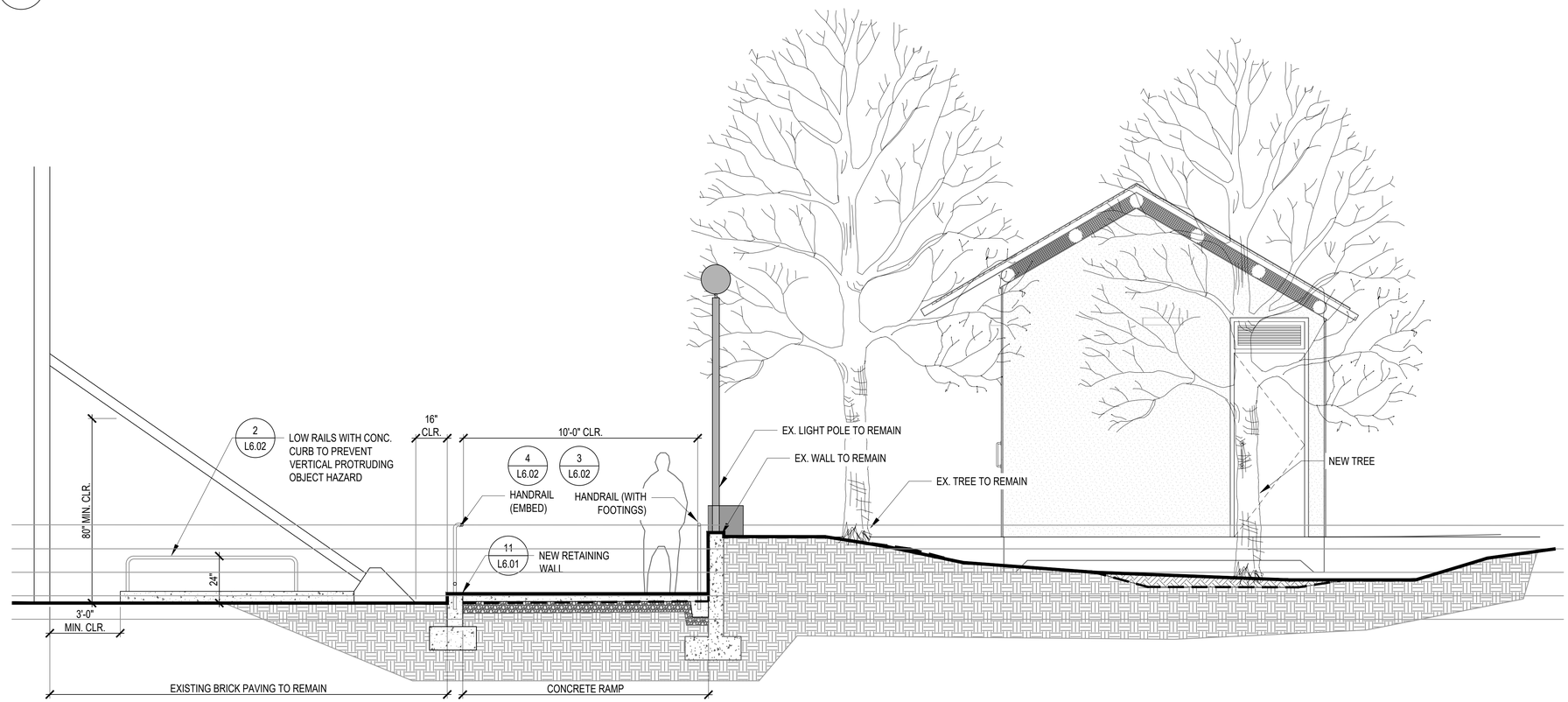


1 ADA ACCESS RAMP TO PICNIC AREA

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



2 SECTION AT EXISTING RETAINING WALL & LIGHT POLE

SCALE: 3/8"=1'-0"

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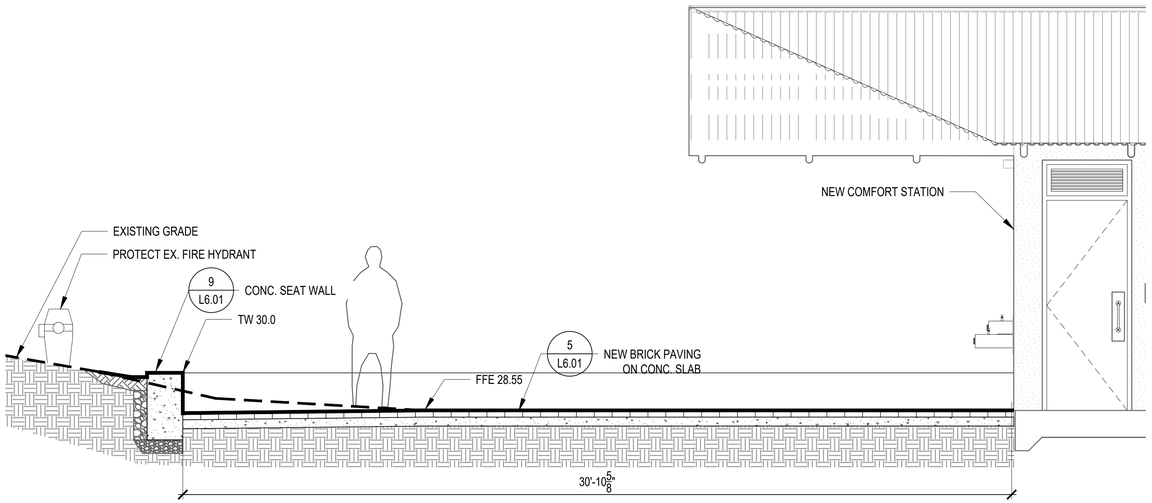
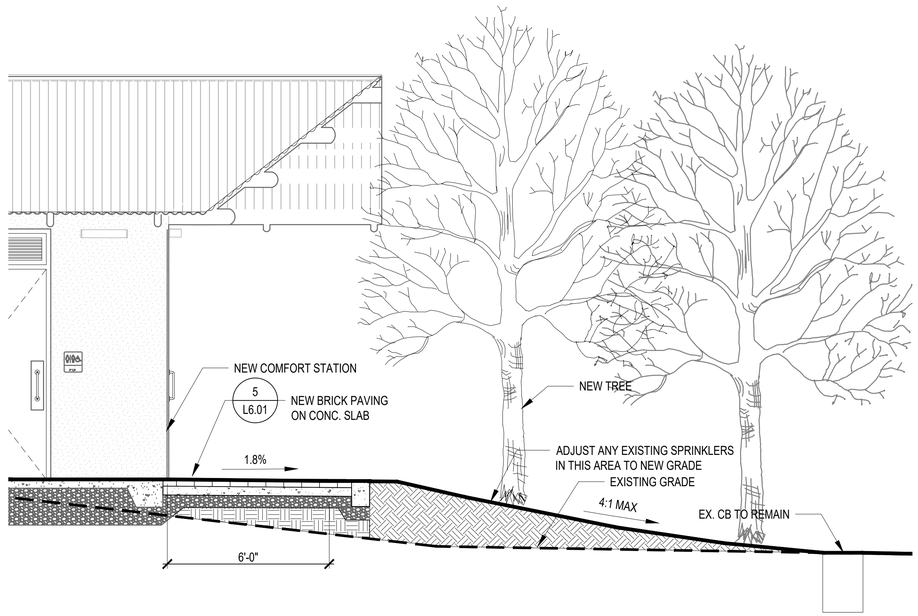
SCALE AS NOTED

L5.02



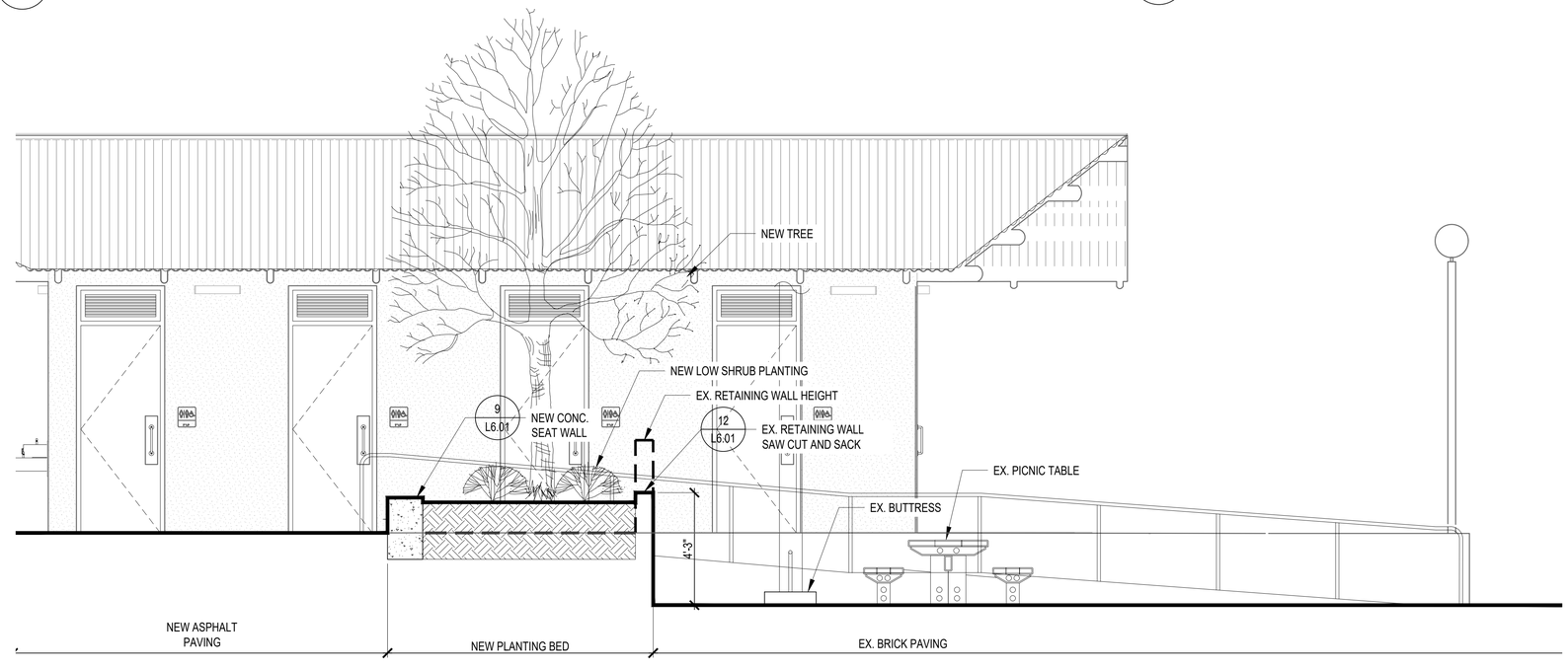
1 SECTION AT COMFORT STATION (WEST END)

SCALE: 3/8"=1'-0"



2 SECTION AT COMFORT STATION (EAST END)

SCALE: 3/8"=1'-0"



3 SECTION AT SEAT WALL & PLANTING BED

SCALE: 3/8"=1'-0"

>>>>CAUTION - CALL 811<<<<
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NO.	REVISION - AS BUILT	DATE
3		
2		
1		

REVIEWED: _____ _____
PARK ENGINEER DATE

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STATE OF WASHINGTON
REGISTERED
LANDSCAPE ARCHITECT
ERIC JOHN STREEBY
LICENSE NO. 1436
EXPIRES ON 01/24/2022

Seattle Parks & Recreation

GAS WORKS PARK

Gas Works Park - Comfort Station & East Entry/ADA - 95% CD

SECTIONS / ELEVATIONS

DESIGNED _____
DRAWN _____
CHECKED _____

DATE December 4, 2020

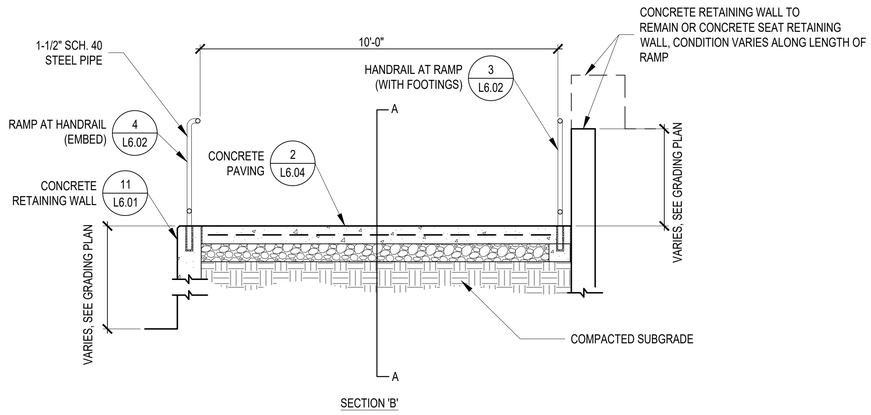
SHEET ____ OF ____

ORDINANCE NO.
GW CS - 124590 - 2008 PLF
SDOT Sidewalk – 125207 – REET 1
East Entry/ADA – 125207 - REET I

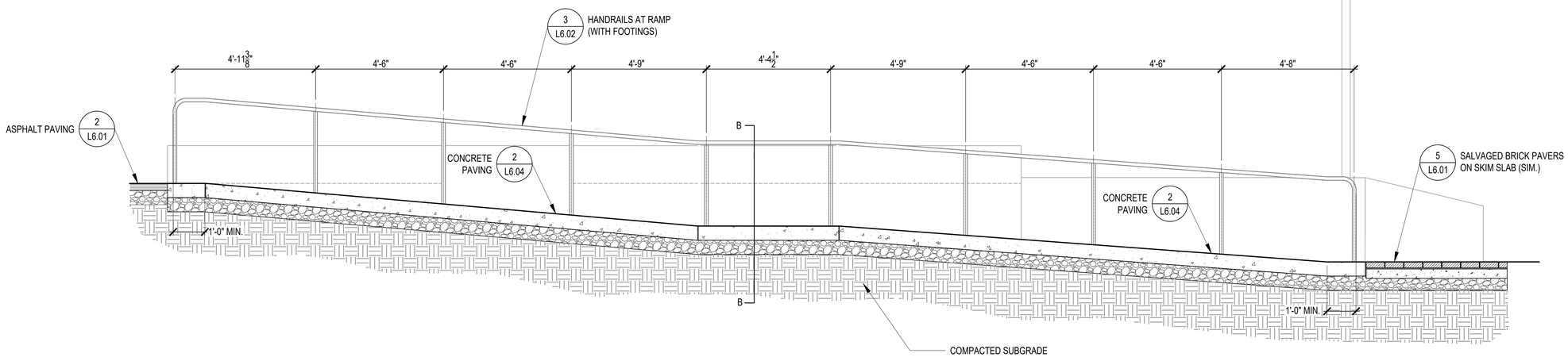
CONTRACT NO. 2055

SCALE AS NOTED

L5.03



SECTION 'B'



1 ACCESSIBLE RAMP - CROSS/LONGITUDINAL SECTIONS

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

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SECTIONS / ELEVATIONS

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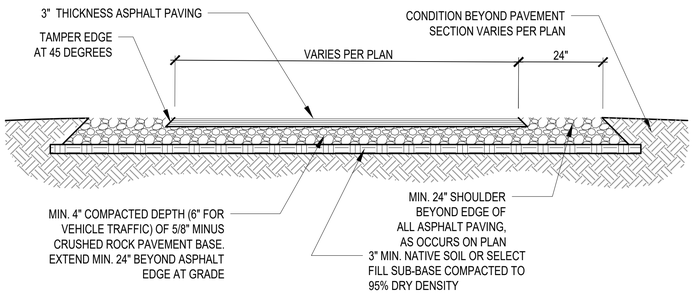
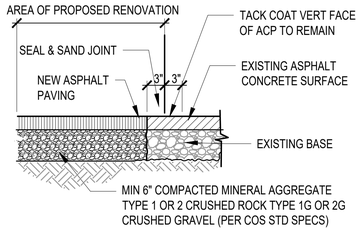
CONTRACT NO. 2055

SCALE AS NOTED

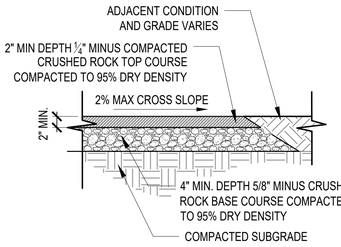
L5.04



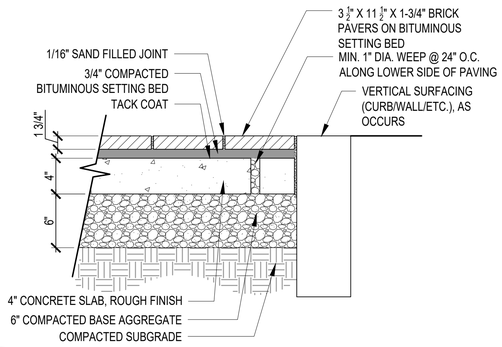
2 ASPHALT PAVING
SCALE: 1/2"=1'-0"



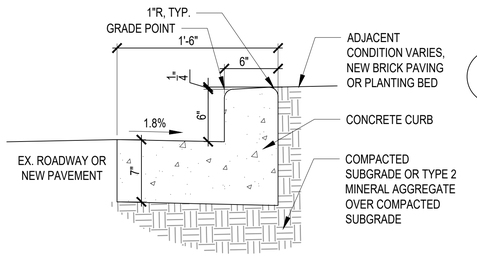
3 ASPHALT PAVING PATCHING DETAIL
SCALE: 3/4"=1'-0"



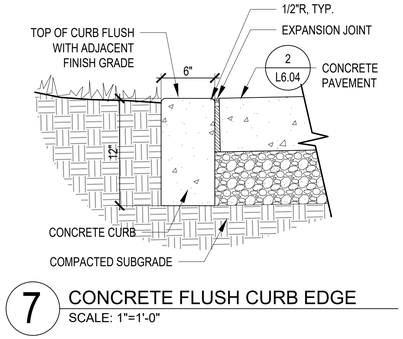
4 CRUSHED ROCK PAVING
SCALE: 3/4"=1'-0"



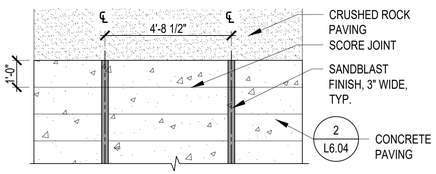
5 BRICK PAVING ON CONC. SLAB
SCALE: 1-1/2"=1'-0"



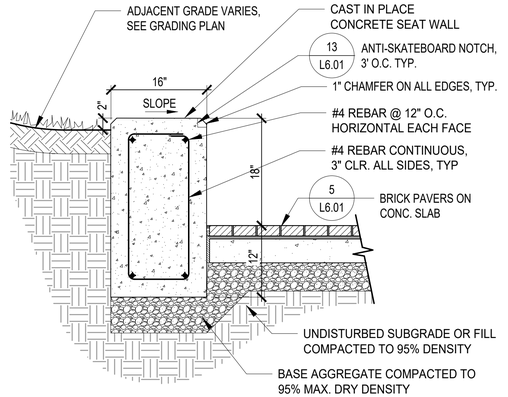
6 CONCRETE CURB AND GUTTER
SCALE: 1-1/2"=1'-0"



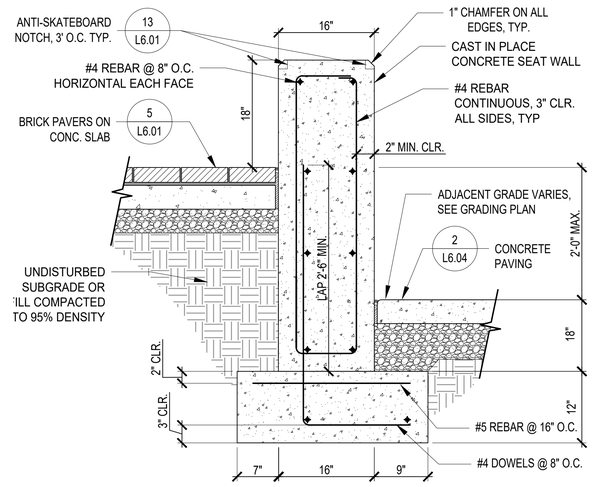
7 CONCRETE FLUSH CURB EDGE
SCALE: 1"=1'-0"



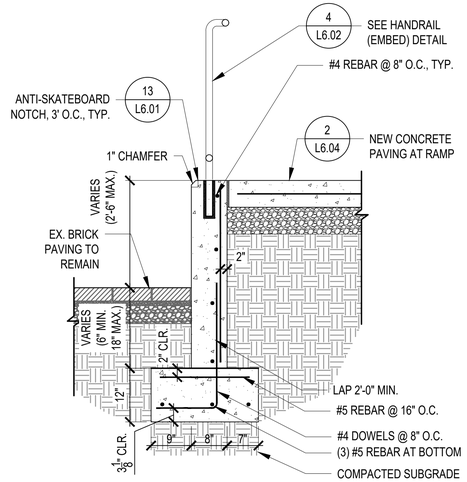
8 FAUX RAIL TRACK SANDBLAST BANDS
SCALE: 3/8"=1'-0"



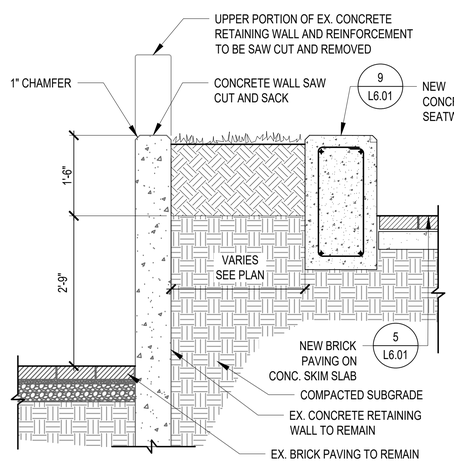
9 CONCRETE SEAT WALL
SCALE: 1"=1'-0"



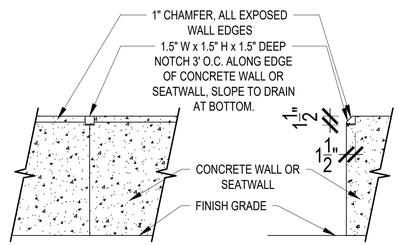
10 CONCRETE RETAINING SEAT WALL
SCALE: 1"=1'-0"



11 CONCRETE RETAINING WALL
SCALE: 3/4"=1'-0"



12 CAP EXISTING CONC. RETAINING WALL
SCALE: 3/4"=1'-0"



13 ANTI-SKATEBOARD NOTCH AT CONC. WALL
SCALE: 3/4"=1'-0"

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ERIC JOHN STREEBY
LICENSE NO. 1436
EXPIRES ON 01/24/2022

Seattle Parks & Recreation

GAS WORKS PARK

Gas Works Park - Comfort Station & East Entry/ADA - 95% CD

DETAILS

DESIGNED _____ DRAWN _____ CHECKED _____
DATE December 4, 2020
SHEET ____ OF ____

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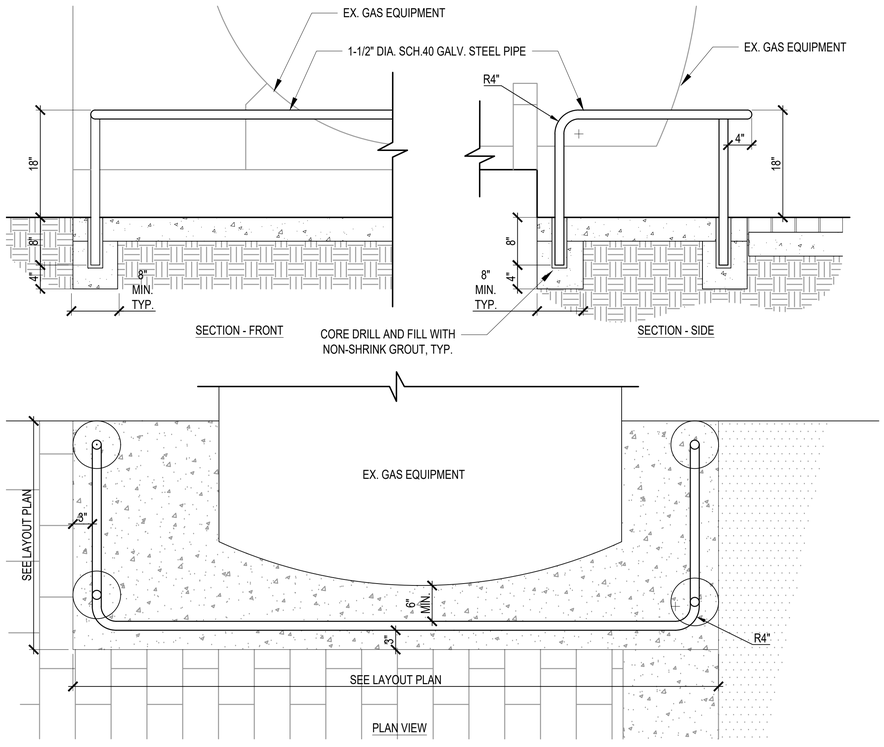
East Entry/ADA – 125207 - REET I

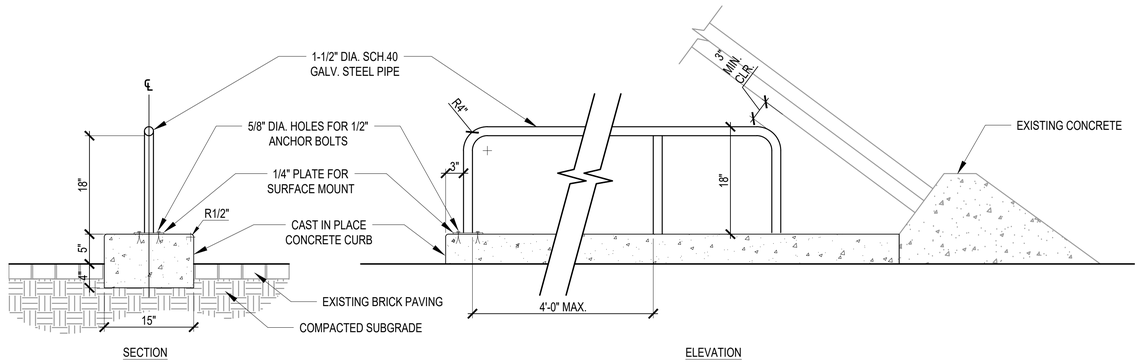
CONTRACT NO. 2055

SCALE AS NOTED

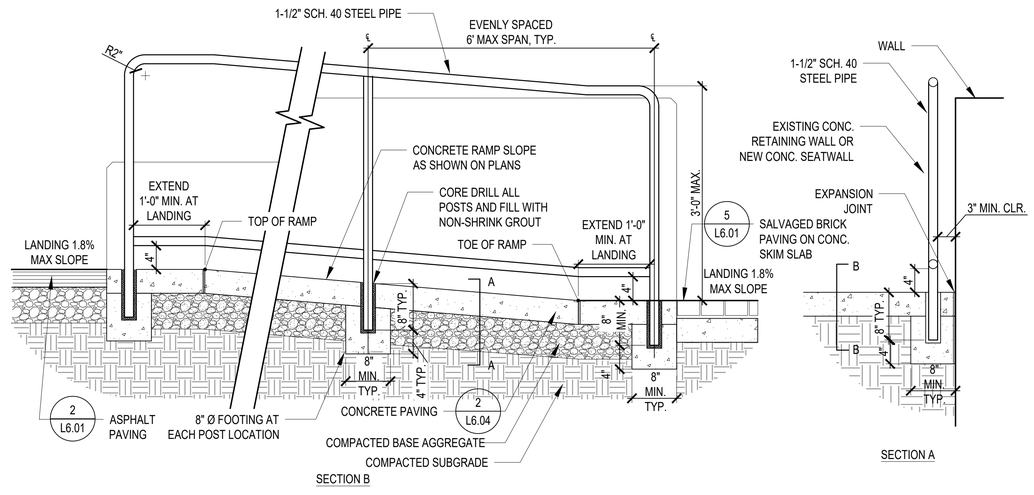
L6.01



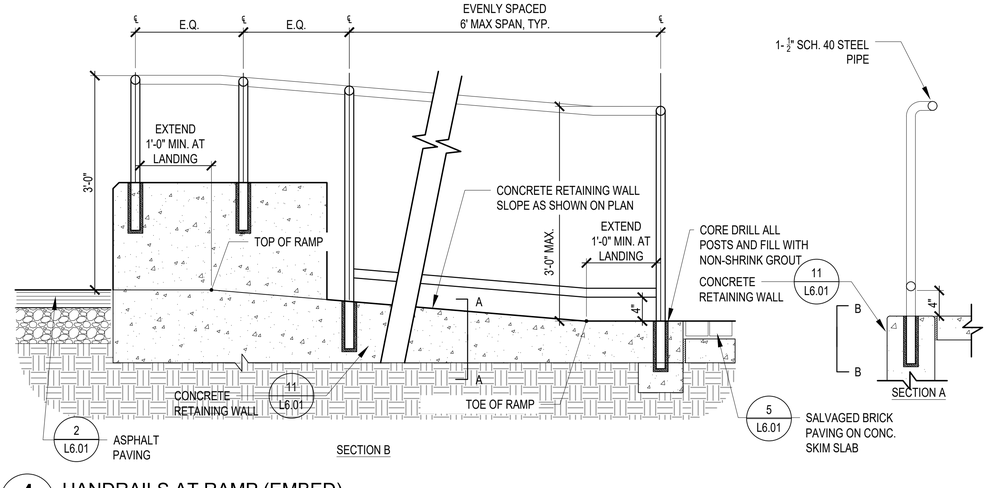
1 LOW RAILS AT GRADE
SCALE: 1"=1'-0"



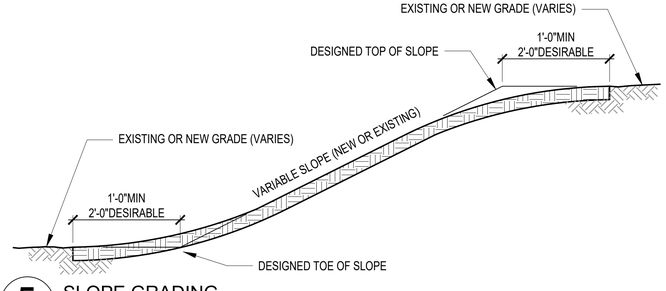
2 LOW RAILS AT CURB
SCALE: 1"=1'-0"



3 HANDRAILS AT RAMP (WITH FOOTINGS)
SCALE: 1"=1'-0"



4 HANDRAILS AT RAMP (EMBED)
SCALE: 1"=1'-0"



5 SLOPE GRADING
SCALE: 3/4"=1'-0"

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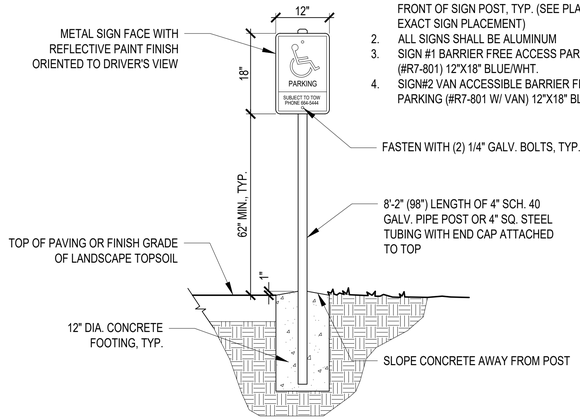
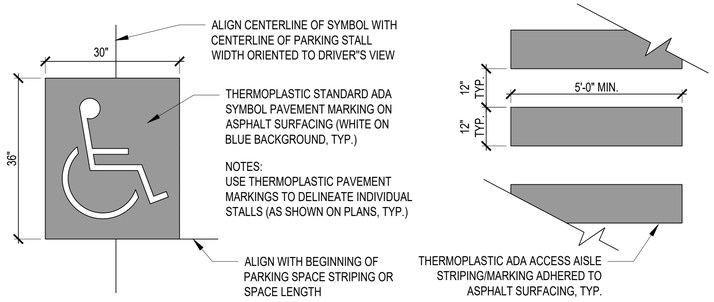
SCALE AS NOTED

L6.02

GENERAL NOTES:
1. PLACE SIGNS MIN. 24" FROM FACE OF CURB TO FRONT OF SIGN POST, TYP. (SEE PLANS FOR EXACT SIGN PLACEMENT)
2. ALL SIGNS SHALL BE ALUMINUM
3. SIGN #1 BARRIER FREE ACCESS PARKING (#R7-801) 12"X18" BLUE/WHT.
4. SIGN#2 VAN ACCESSIBLE BARRIER FREE PARKING (#R7-801 W/ VAN) 12"X18" BLUE/WHT.



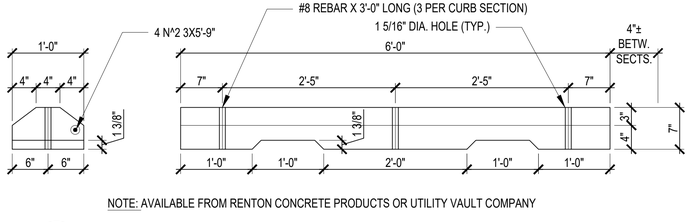
TYPICAL ADA PARKING SIGN



ADA STALL SYMBOL

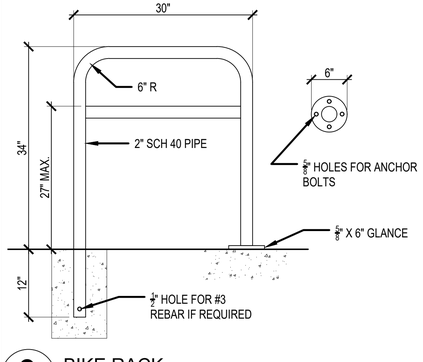
ADA ACCESS ISLE STRIPING

1 ACESSIBLE SIGN, LOGO AND STRIPING DETAIL
SCALE: 3/4"=1'-0"

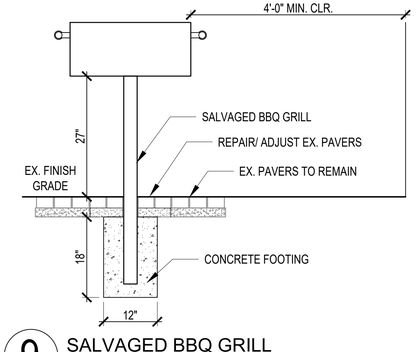


NOTE: AVAILABLE FROM RENTON CONCRETE PRODUCTS OR UTILITY VAULT COMPANY

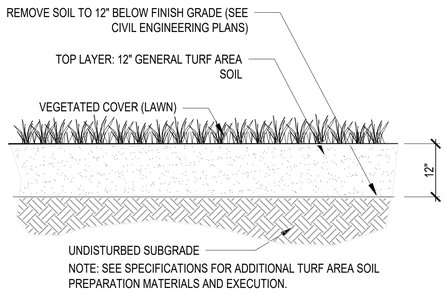
6 CONCRETE WHEEL STOP
SCALE: 1"=1'-0"



8 BIKE RACK
SCALE: 3/4"=1'-0"

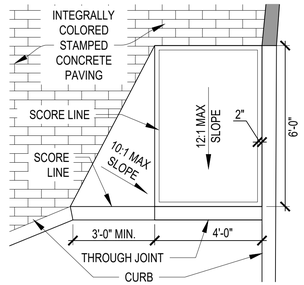


9 SALVAGED BBQ GRILL
SCALE: 3/4"=1'-0"



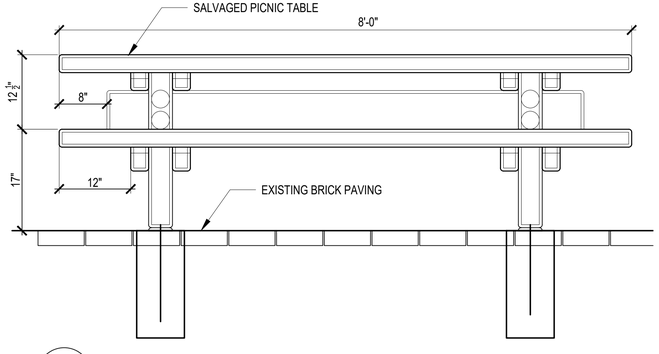
NOTE: SEE SPECIFICATIONS FOR ADDITIONAL TURF AREA SOIL PREPARATION MATERIALS AND EXECUTION.

2 SOIL REPLACEMENT AREAS
SCALE: 1/2"=1'-0"

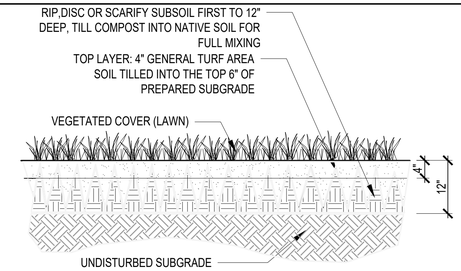


NOTES:
1. THE WING SHALL HAVE A SLIGHTLY BRUSHED FINISH PARALLEL TO THE CURB.
2. INLETS SHALL BE SO LOCATED THAT THE GUTTER FLOW DOES NOT FLOW PAST THE CURB RAMP

4 ADA CURB RAMP
SCALE: 3/4"=1'-0"

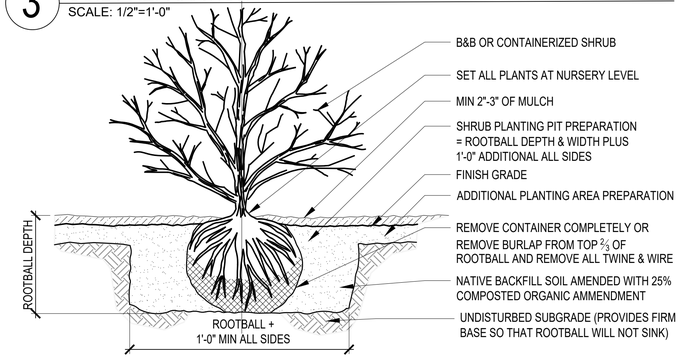


7 SALVAGED PICNIC TABLE
SCALE: 3/4"=1'-0"

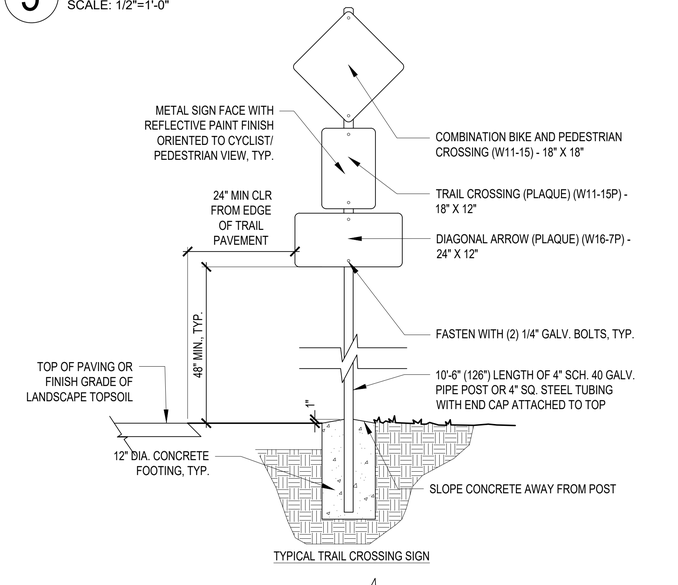


NOTE: SEE SPECIFICATIONS FOR ADDITIONAL TURF AREA SOIL PREPARATION MATERIALS AND EXECUTION.

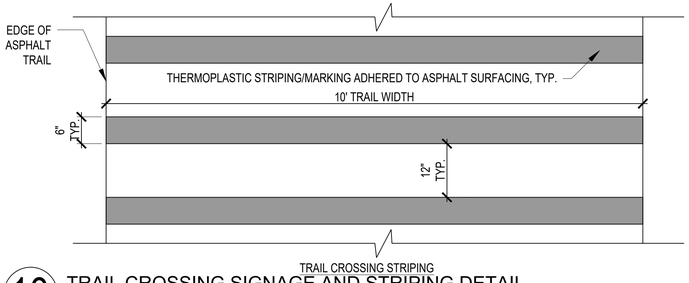
3 SOIL PREPARATION IN GENERAL LAWN AREAS
SCALE: 1/2"=1'-0"



5 TREE/ SHRUB PLANTING
SCALE: 1/2"=1'-0"



TYPICAL TRAIL CROSSING SIGN



TRAIL CROSSING STRIPING

10 TRAIL CROSSING SIGNAGE AND STRIPING DETAIL
SCALE: 3/4"=1'-0"

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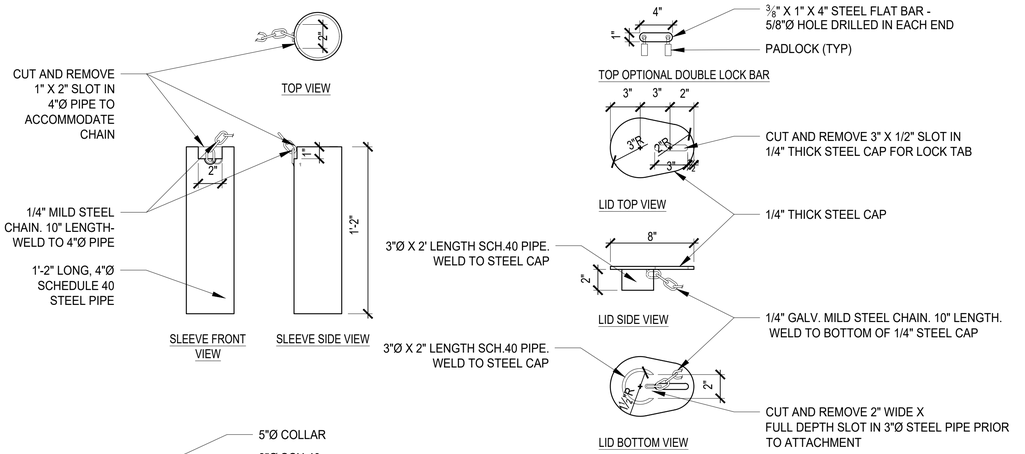
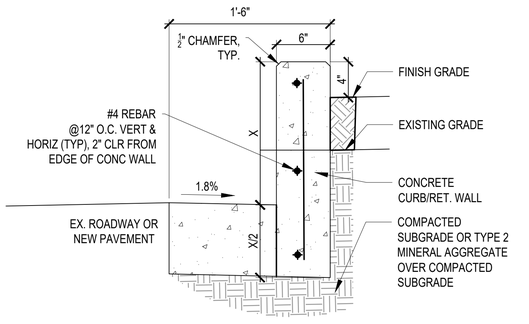
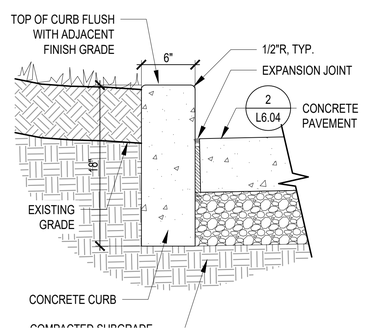
L6.03



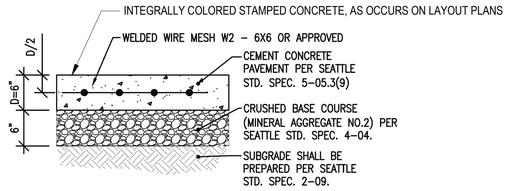
1 REMOVABLE BOLLARD
SCALE: 1"=1'-0"

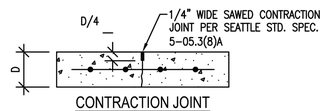


3 CONCRETE CURB & GUTTER WITH LOW RETAINING WALL
NTS

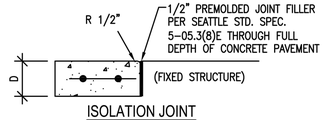


4 CONCRETE 6" PEDESTRIAN CURB
NTS

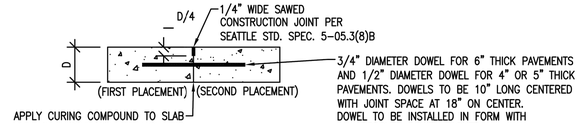




CONTRACTION JOINT



ISOLATION JOINT



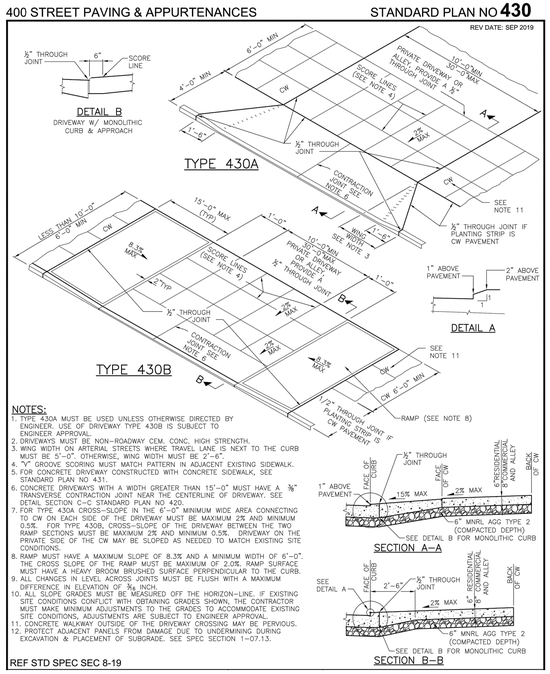
CONSTRUCTION JOINT

NOTES:
1. DEPTHS ARE COMPACTED THICKNESS.
2. ALL SAWED JOINTS SHALL BE SEALED PER SEATTLE STD. SPEC. 5-05.3(8)A2.

2 CONCRETE PAVEMENT
NTS

400 STREET PAVING & APPURTENANCES — STANDARD PLAN NO **430**

REV DATE: SEP 2019



5 CONCRETE DRIVEWAY - COS STD PLAN 430A
NTS

>>>>CAUTION - CALL 811<<<<
UTILITY NOTIFICATION CENTER BEFORE YOU DIG!
WWW.CALL811.COM

ALSO CONTRACT WITH A COMMERCIAL UNDERGROUND UTILITIES LOCATOR SERVICE TO IDENTIFY BELOW-GROUND INFRASTRUCTURE THAT MAY NOT BE LOCATED BY CALL 811 BEFORE-YOU-DIG.

NO.	REVISION - AS BUILT	DATE
3		
2		
1		

REVIEWED: _____ PARK ENGINEER _____ DATE

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PATANO STUDIO ARCHITECTURE
603 STEWART ST., SUITE #500, SEATTLE, WA 98101
TEL: 206.734.3870 | WWW.PATANOSTUDIO.COM

bcra

STATE OF WASHINGTON REGISTERED LANDSCAPE ARCHITECT
ERIC JOHN STREEBY
LICENSE NO. 1436
EXPIRES ON 01/24/2022

Seattle Parks & Recreation

GAS WORKS PARK

Gas Works Park - Comfort Station & East Entry/ADA - 95% CD

DETAILS

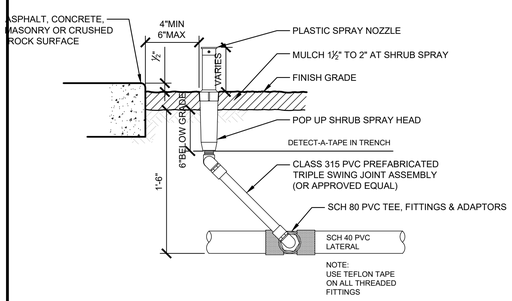
DESIGNED _____ DRAWN _____ CHECKED _____
DATE December 4, 2020
SHEET ____ OF ____

ORDINANCE NO.
GW CS - 124590 - 2008 PLF
SDOT Sidewalk – 125207 – REET 1
East Entry/ADA – 125207 - REET I

CONTRACT NO. 2055

SCALE AS NOTED

L6.04

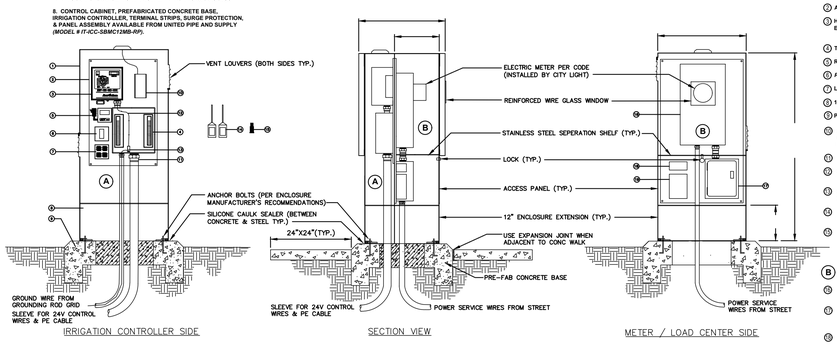


1 COS SPR 32 84 26 19 POP UP SPRAY HEAD

1 1/2" = 1'-0" P-PA-GAS-01

ENCLOSURE CABINET & PANEL NOTES:

1. STRONG BOX CABINET - #SB-24SS-120V.
2. COLD ROLLED STEEL CONSTRUCTION
3. POWDER COATED DARK GREEN COLOR
4. TWO LOUVERED VENTS ON EACH SIDE
5. REMOVABLE EQUIPMENT MOUNTING PANELS
6. CABINET BOLTED TO A PREFABRICATED CONCRETE BASE
7. HINGED METER VIEWING WINDOW WITH REINFORCED GLASS
8. CONTROL CABINET, PREFABRICATED CONCRETE BASE, IRRIGATION CONTROLLER, TERMINAL STRIPS, SURGE PROTECTION, & PANEL ASSEMBLY AVAILABLE FROM UNITED PIPE AND SUPPLY *(MODEL # IT-ICC-SBMC12MB-RP).*



A IRRIGATION CONTROL PANEL LEGEND:

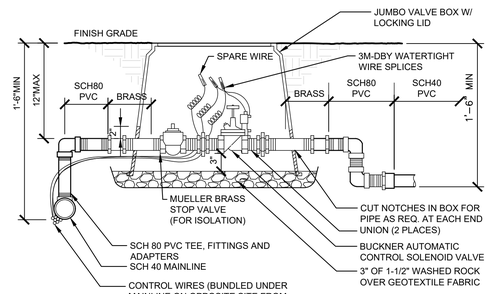
1. STRONGBOX ENCLOSURE #SB24-SS-120V
2. ALUMINUM PANEL (BOLTED TO BACK WALL OF BOX)
3. HYBRID CONTROLLER: RAINBIRD ESP-SITESAT ESP4dSITEW
4. TERMINAL BOX WITH TERMINAL STRIPS.
5. RAINBIRD FLOW MONITOR.
6. *PUMP MANUFACTURER (OPTIONAL IF REQUIRED)*
7. LEVITON 5280-W, GFI OUTLET.
8. 12" ENCLOSURE EXTENSION (TYP.)
9. PRE-CAST OR CONCRETE BASE
10. CELLULAR COMMUNICATION EQUIPMENT (SIERRA WIRELESS RV50X FOR VERIZON - LATEST FIRMWARE)
11. MIN. 2" CONDUIT FOR STATION CONTROL WIRES
12. GROUND WIRE CONNECTS FROM GROUND LUG TO GROUNDING BUSS IN CONTROLLER (TYP.)
13. GROUND LUG (RUN WIRE FROM GROUND LUG TO GROUNDING ROD GRID TYP.)
14. TRC COMMANDER REMOTE TRANSMITTERS (2 UNITS PER PROJECT TYP.)
15. PULSE DECODER (OPTIONAL IF REQUIRED)

B METER / LOAD CENTER PANEL LEGEND:

16. 200 AMP METER BASE REQUIRED BY CITY LIGHT (ALIGN METER WITH WINDOW TYP.)
17. SIEMENS LOAD CENTER, #E0816ML1125SCU - 8/16, W/125A, WITH 8 SPACES & 16 CIRCUITS, 4- QP MAX, 2-POLES, 14-3/4"X12-3/8"X3-7/8", (WITH BACK-FED MAIN BREAKER TYP.)
18. PHOTOCELL BYPASS SWITCH (OPTIONAL IF REQUIRED)
19. LIGHTING CONTACTOR (OPTIONAL IF REQUIRED)

2 PEDESTAL MOUNTED IRRIGATION CONTROLLER

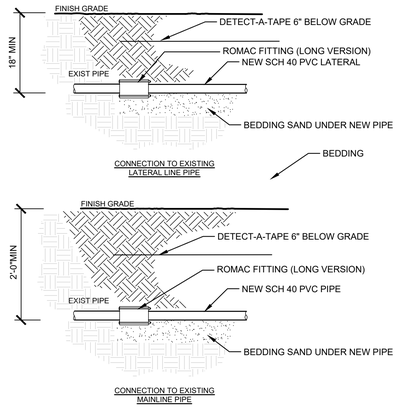
1/2" = 1'-0" P-PA-GAS-02



NOTE: CUT "U" SHAPED NOTCHES IN BOTH SIDES OF VALVE BOX THAT ALLOW 2" MIN CLEARANCE FROM TOP OF PIPE TO TOP OF CUT-OUT. USE TEFLON TAP ON ALL THREADED FITTINGS.

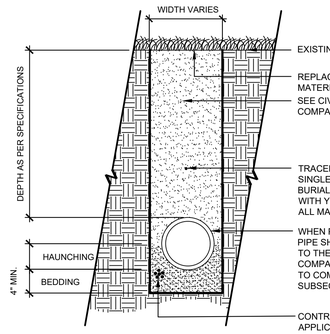
3 COS SPR 32 84 29 16 AUTO VALVE ASSEMBLY

1" = 1'-0" P-PA-GAS-03



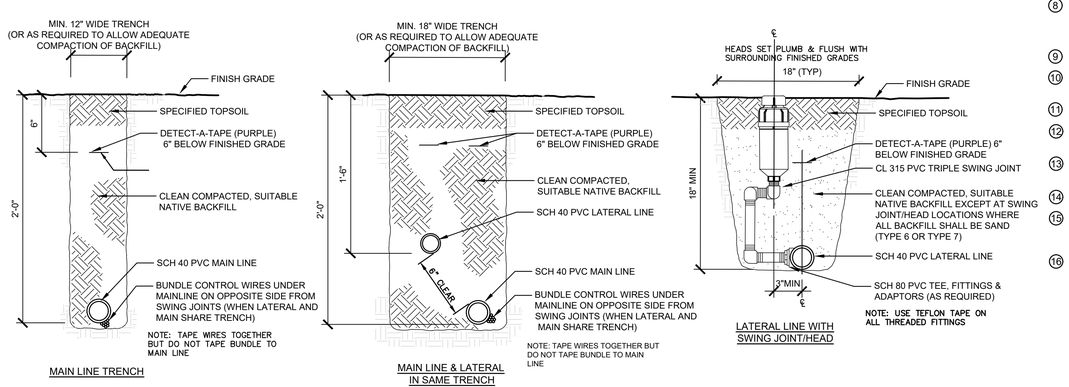
4 COS SPR 32 84 15 CONNECT TO EX PIPE

1 1/2" = 1'-0" P-PA-GAS-04



5 TRENCH DETAIL WITH TRACER WIRE

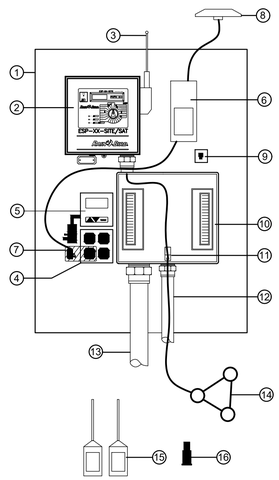
1" = 1'-0" P-PA-GAS-05



6 COS SPR 32 84 13 IRRIGATION TRENCHES

1 1/2" = 1'-0" P-PA-GAS-06

1. CONTROLLER ENCLOSURE (SEE SPECIFICATIONS)
2. EXISTING RELOCATED CONTROLLER: RAINBIRD *ESP4OSITE*
3.
4. EXISTING REMOTE ANTENNA (IF APPLICABLE
5. LEVITON 5280-W GFI OUTLET (IF APPLICABLE) EXISTING RELOCATED
6. RAINBIRD FLOW MONITOR (IF APPLICABLE) EX. RELOCATED CELLULAR COMMUNICATION EQUIPMENT (IF APPLICABLE)
7. EXISTING RELOCATED MODEM POWER SUPPLY.
8. CELLULAR ANTENNA WITH ADAPTER & CABLE (INSTALLED ON TOP OF ENCLOSURE OR BUILDING AS REQUIRED)(IF APPLICABLE)
9. RJ-11 PHONE JACK (AS REQ) (IF APPLICABLE)
10. TERMINAL BOX W/ TERMINAL STRIPS
11. GROUND LUG
12. 2" CONDUIT FOR STATION ZONE CONTROL WIRES
13. 1" CONDUIT FOR GROUND WIRE FROM GROUNDING GRID (TYP)
14. GROUNDING GRID
15. TRC COMMANDER REMOTE TRANSMITTERS (2 UNITS PER PROJECT TYP.).
16. PULSE DECODER (OPTIONAL AS REQUIRED)



NOTES: CELLULAR EQUIPMENT IS NOT USED IF PHONE SERVICE IS HARDLINED AT FACILITY. PHONE JACK IS USED FOR HARDLINE OPTION. GROUNDING IS REQUIRED (SEE SPECS)

TYPICAL CONTROL PANEL ASSEMBLY (FOR SINGLE MAXICOM CONTROLLER APPLICATIONS)

7 COS SPR 32 85 13-13 IRRIGATION CONTROLLER

1" = 1'-0" P-PA-GAS-07

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NO.	REVISION - AS BUILT	DATE
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REVIEWED: _____ PARK ENGINEER _____ DATE

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GAS WORKS PARK

Gas Works Park - Comfort Station & East Entry/ADA - 95% CD

IRRIGATION DETAILS

DESIGNED _____ DRAWN _____ CHECKED _____
DATE December 4, 2020
SHEET ____ OF ____

ORDINANCE NO.
GW CS - 124590 - 2008 PLF
SDOT Sidewalk – 125207 – REET 1
East Entry/ADA – 125207 - REET I

CONTRACT NO. 2055

SCALE AS NOTED

L6.05

GENERAL NOTES

1. ALL WORK SHALL BE IN CONFORMANCE WITH APPLICABLE CODES AND LOCAL BUILDING REQUIREMENTS, INCLUDING BUT NOT LIMITED TO THE 2015 EDITION OF THE IBC W/ SEATTLE AMMENDMENTS AND THE 2015 INTERNATIONAL ENERGY CONSERVATION CODE.

2. ALL APPLICABLE CODES, ORDINANCES AND MINIMUM STRUCTURAL REQUIREMENTS TAKE PRECEDENCE OVER DRAWINGS AND NOTES.

3. CONTRACTOR SHALL VERIFY ALL DIMENSIONS SHOWN ON THE DRAWINGS BEFORE COMMENCING WITH WORK. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER AND ARCHITECT PRIOR TO STARTING ANY CONSTRUCTION OF THE AREA CONCERNED. DO NOT SCALE DRAWINGS.

4. DIMENSIONS ARE TO FACE OF CMU, CONCRETE, CLT OR FACE OF STUD, U.N.O.

5. PARTITIONS AND WALLS NOT OTHERWISE DIMENSIONED SHALL BE LOCATED FLUSH WITH REFERENCE TO ADJACENT WALL FACE.

6. WHERE ON ANY OF THE DRAWINGS OR DETAILS, A PORTION OF THE WORK IS SHOWN AND/OR DETAILED, AND THE REMAINDER IS INDICATED IN OUTLINE, THE PARTS SHOWN AND/OR DETAILED SHALL APPLY TO ALL OTHER LIKE PORTIONS OF THE WORK.

7. PRIOR TO AND DURING THE WORK, CONTRACTOR SHALL VERIFY CONDITIONS; ANY CONDITIONS INCONSISTENT OR PROBLEMATIC WITH REGARD TO THE INTENT OF THE DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER AND ARCHITECT PRIOR TO STARTING OR CONTINUING WORK IN THE AREA CONCERNED.

8. PROVIDE SUFFICIENT STRUCTURE IN WALLS FOR SUPPORTING COUNTERS, CABINETS ACCESSORIES, ETC., AS REQUIRED.

9. VERTICAL DIMENSIONS ARE TYPICALLY REFERENCED FROM STRUCTURAL SLAB U.N.O.

10. CONTRACTOR TO ASSUME ALL MATERIALS AS NEW UNLESS NOTED AS "EXISTING".

11. ALL WOOD IN CONTACT WITH CONCRETE TO BE P.T.

12. FLASH OPENINGS WITH MIN. 22 GA. GALV. STL. TO ACCEPTABLE INDUSTRY STANDARDS. ALL FLASHING LAP SEAMS TO BE 12" MIN. W/ 2 BEADS OF CONTINUOUS SEALANT.

13. CONTRACTOR TO VERIFY LOCATION OF ALL EXISTING UTILITIES THROUGHOUT SITE PRIOR TO EXCAVATION.

14. GEOTECHNICAL ENGINEER REQUIRED TO BE ONSITE DURING FOUNDATION GRADING AND EXCAVATION PRIOR TO CONCRETE PLACEMENT TO EVALUATE SOILS.

SYMBOLS

CMU WALL

PLYWOOD

CONCRETE

SOLID WOOD BLOCKING

WOOD FRAMING

ABOVE, BELOW OR HIDDEN

ROOM NAME
100
ROOM NAME & NUMBER

BATT INSULATION

RIGID INSULATION

F.E. FIRE EXTINGUISHER

XXX WALL TYPE

XXX DOOR TAG

XXX WINDOW TAG

XXX FINISH TAG

A
123
BUILDING SECTION

DETAIL NUMBER
A
123
DETAIL
SHEET NUMBER

ABBREVIATIONS LIST (ABBREV. NOT LIMITED TO THIS LIST)

A.B.	ANCHOR BOLT
ABV.	ABOVE
ADJ.	ADJUSTABLE/ADJACENT
A.F.F.	ABOVE FINISH FLOOR
BLDG.	BUILDING
BLK'G	BLOCKING
BOT.	BOTTOM
BTWN.	BETWEEN
BYD.	BEYOND
CL	CENTERLINE
CLG.	CEILING
CONC.	CONCRETE
C.I.	CAST IRON
℄	CENTER LINE
C.O.	CLEAN OUT
C.W.	COLD WATER
CAB.	CABINET
CLR.	CLEAR
CNTR.	CENTER
CONST.	CONSTRUCTION
CONT.	CONTINUOUS
CTR.	CENTER
CLT	CROSS LAMINATED TIMBER
CMU	CONCRETE MASONRY UNIT
GCMU	GLAZED CONCRETE MASONRY UNIT
D.	DRAIN
DIA.	DIAMETER
D.G.	DECOMPOSED GRANITE
DR.	DOOR
DWG.	DRAWING
DWGS.	DRAWINGS
D.S.	DOWNSPOUT & CONDUCTOR HEAD
DTL.	DETAIL
DIM.	DIMENSION
DN.	DOWN
DWR.	DRAWER
(E) OR EXIST.	EXISTING
E.W.	EACH WAY
EA.	EACH
ELEC.	ELECTRICAL
EQ	EQUAL
EXP.	EXPANSION/EXPOSED
EXT.	EXTERIOR
FD.	FLOOR DRAIN
F.E.C.	FIRE EXTINGUISHER CABINET
F.M.C.	FLOOR MATERIAL CHANGE
FOIC	FURNISHED BY OWNER, INSTALLED BY CONTRACTOR
FOIO	FURNISHED BY OWNER INSTALLED BY OWNER
F.O.C.	FACE OF CONCRETE
F.O.M.	FACE OF MASONRY
F.O.S.	FACE OF STUD
FIN.	FINISH
FLR.	FLOOR
GA.	GAUGE
GALV.	GALVANIZED
GCMU	GLAZED CONCRETE MASONRY UNIT
GL	GLASS
G.W.B.	GYPSUM WALL BOARD
HDWR.	HARDWARE
HDR.	HEADER
HT.	HEIGHT
H.M.	HOLLOW METAL
HORIZ.	HORIZONTAL
H.W.	HOT WATER
HR.	HOUR
HDG	HOT DIPPED GALVANIZED
I.D.	INSIDE DIAMETER
INSUL.	INSULATION
INT.	INTERIOR
INTL.	INTERNATIONAL
JT.	JOINT
MAX.	MAXIMUM
MECH.	MECHANICAL
MIN.	MINIMUM
MISC.	MISCELLANEOUS
MAT'L	MATERIAL
MTL.	METAL
M.O.	MASONRY OPENING
MOD. BT.	MODIFIED BITUMEN
N.T.S.	NOT TO SCALE
NIC.	NOT IN CONTRACT
NO. OR #	NUMBER
O.C.	ON CENTER
O.D.	OUTSIDE DIAMETER
OPP.	OPPOSITE
O/	OVER
PLYWD.	PLYWOOD
PL	PLT.
P.LAM	PLASTIC LAMINATE
PNTD.	PAINTED
P.T.	PRESSURE TREATED
R.	RADIUS
RCP	REFLECTED CEILING PLAN
REQD.	REQUIRED
R.O.	ROUGH OPENING
S.D.	SMOKE DETECTOR
S.S.	STAINLESS STEEL
SIM.	SIMILAR
SQ.	SQUARE
STD.	STANDARD
STL.	STEEL
STRUCT.	STRUCTURAL
T.O.	TOP OF
T.O.C.	TOP OF CONCRETE
T.O.M.	TOP OF MASONRY
T.O.S.	TOP OF SLAB
T.O.S.F.	TOP OF SUBFLOOR
TYP.	TYPICAL
T.O.S.	TOP OF SLAB
T.O.S.F.	TOP OF SUBFLOOR
TYP.	TYPICAL
U.N.O.	UNLESS NOTED OTHERWISE
VERT.	VERTICAL
VFY.	VERIFY
V.I.F.	VERIFY IN FIELD
WD.	WOOD
W/	WITH
W/I	WITHIN
W/O	WITHOUT
W.C.	WATER CLOSET
W.GL.	WIRE GLASS
W.M.	WIRE MESH
W.P.	WATERPROOF
W.W.M.	WELDED WIRE MESH

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NO.	REVISION - AS BUILT	DATE
3		
2		
1		

REVIEWED: _____ _____
PARK ENGINEER DATE

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PATANO STUDIO ARCHITECTURE
603 STEWART ST., SUITE #300, SEATTLE, WA 98101
TEL: 206.734.3870 | WWW.PATANOSTUDIO.COM

8425 REGISTERED ARCHITECT CHRISTOPHER S. PATANO STATE OF WASHINGTON
NOT FOR CONSTRUCTION

Seattle Parks & Recreation

GAS WORKS PARK

Gas Works Park - Comfort Station & East Entry/ADA - 95% CD

NOTES, LEGENDS & ABBREVIATIONS

DESIGNED _____
DRAWN _____
CHECKED _____
DATE December 4, 2020
SHEET ____ OF ____

ORDINANCE NO.
GW CS - 124590 - 2008 PLF
SDOT Sidewalk – 125207 – REET I
East Entry/ADA – 125207 - REET I

CONTRACT NO. 2055

SCALE AS NOTED

A0.00

FINISH LEGEND	
S1 PARGE COAT, PNTD. P1	SEE SPECIFICATION SECTION 09 91 13 - EXTERIOR PAINTING
P1 PAINT COLOR 1	SEE SPECIFICATION SECTION 09 91 13 - EXTERIOR PAINTING
P2 PAINT COLOR 2	SEE SPECIFICATION SECTION 09 91 23 - INTERIOR PAINTING
EP1 EPOXY PAINT / COATING	SEE SPECIFICATION SECTION 09 67 23 - RESINOUS FLOORING
GC1 WHITE GLAZED CMU (GCMU)	SEE SPECIFICATION SECTION 04 20 00 - UNIT MASONRY
GC2 GREY GLAZED CMU (GCMU)	SEE SPECIFICATION SECTION 04 20 00 - UNIT MASONRY
BC LIGHT BROOM FINISH CONCRETE	SEE SPECIFICATION SECTION 03 35 00 - CONCRETE FINISHING

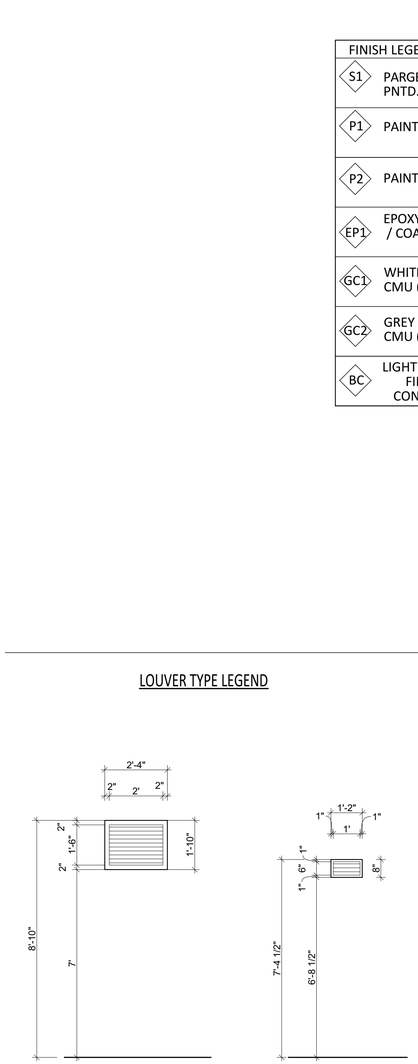
FINISH SCHEDULE

ROOM NUMBER	ROOM NAME	FLOOR	BASE	WALLS NORTH	WALLS EAST	WALLS WEST	WALLS SOUTH	CEILING (OPEN TO STRUCTURE)	NOTES
101	CHASE	BC	--	GC1	GC1	GC1	GC1	P1	
102	RESTROOM	EP1	COVE BASE UNIT / GC1	GC1 GC2	GC1 GC2	GC1 GC2	GC1 GC2	P1	
103	RESTROOM	EP1	COVE BASE UNIT / GC1	GC1 GC2	GC1 GC2	GC1 GC2	GC1 GC2	P1	
104	RESTROOM	EP1	COVE BASE UNIT / GC1	GC1 GC2	GC1 GC2	GC1 GC2	GC1 GC2	P1	
105	RESTROOM	EP1	COVE BASE UNIT / GC1	GC1 GC2	GC1 GC2	GC1 GC2	GC1 GC2	P1	

NOTES:

1. SEE INTERIOR ELEVATIONS, FLOOR PLAN, AND REFLECTED CEILING PLAN FOR MORE INFORMATION.
2. SEE SPECIFICATIONS FOR MORE INFORMATION.

LOUVER TYPE LEGEND



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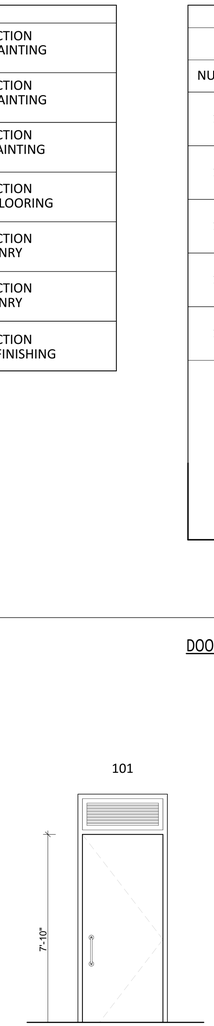
DOOR TYPE LEGEND



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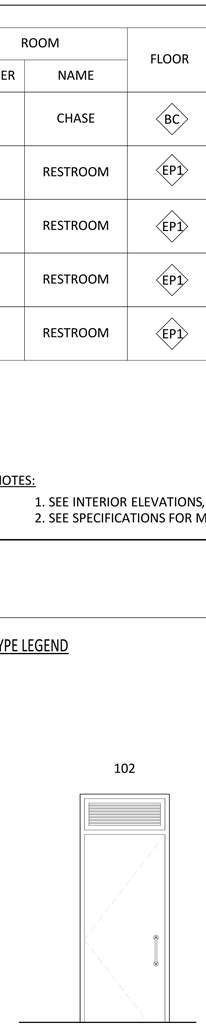

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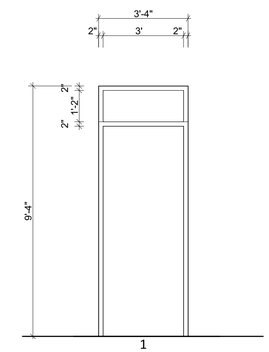

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1

SCHEDULE LEGEND
NUMBER: DOOR NUMBER AS INDICATED ON FLOOR PLANS SIZE (WXH): FIELD VERIFY ALL DOOR OPENINGS DOOR TYPE: REFER TO DOOR TYPE LEGEND THIS SHEET HDWR. SET: HARDWARE GROUP - SEE HARDWARE SCHEDULE, THIS SHEET MATERIAL: H.M. HOLLOW METAL DOOR OR FRAME FINISH: PTD. PAINTED FRAME TYPE: REFER TO FRAME TYPE LEGEND THIS SHEET NOTES SEE SPECIFICATION SECTION 08 71 00 FOR MORE INFO.
NOTE: SEE SPECIFICATIONS FOR MORE INFORMATION.

HARDWARE LEGEND			
HARDWARE SET 1			
EACH TO RECEIVE:			
4	EA	HINGE	STANLEY FBB 199
1	EA	LOCK	BEST 93K7T
1	EA	TUBULAR DEADBOLT	BEST 83T7S
1	EA	CORE	BEST (FIGURE 8)
1	EA	KICKPLATE	TRIMCO B4E
1	EA	WALL STOP	TRIMCO 127OCX
1	EA	THRESHOLD	PEMCO 276A
1	SET	GASKET	PEMCO S44D
1	EA	LATCH PROTECTOR	DON-JO ILP 206
1	EA	DOOR BOTTOM	PEMCO 315CN
HARDWARE SET 2			
EACH TO RECEIVE:			
4	EA	HINGE	STANLEY FBB 199
1	EA	LOCK	BEST 93K7T
1	EA	TUBULAR DEADBOLT	BEST 83T7S
1	EA	CORE	BEST (FIGURE 8)
1	EA	KICKPLATE	TRIMCO B4E
1	EA	WALL STOP	TRIMCO 127OCX
1	EA	THRESHOLD	PEMCO 276A
1	SET	GASKET	PEMCO S44D
1	EA	LATCH PROTECTOR	DON-JO ILP 206
1	EA	DOOR BOTTOM	PEMCO 315CN
NOTE: SEE SPECIFICATIONS FOR MORE INFORMATION.			

DOOR SCHEDULE

NO.	DOOR TYPE	DOOR MATERIAL	DOOR SIZE (W X H)	DOOR THICKNESS	FRAME TYPE	FRAME MATERIAL	HEAD	JAMB	SILL	FINISH	HARDWARE SET	ASSEMBLY U-VALUE	FIRE RATING	REMARKS
101	A	H.M.	3'-0"x7'-10"	1 3/4"	1	H.M.	2/A9.01	6/A9.01, SIM 5/A9.01	9/A9.01	PNTD.	2	N/A	UNRATED	1
102	B	H.M.	3'-0"x7'-10"	1 3/4"	1	H.M.	2/A9.01	6/A9.01, SIM 5/A9.01	9/A9.01	PNTD.	1	N/A	UNRATED	1
103	B	H.M.	3'-0"x7'-10"	1 3/4"	1	H.M.	2/A9.01	6/A9.01, SIM 5/A9.01	9/A9.01	PNTD.	1	N/A	UNRATED	1
104	B	H.M.	3'-0"x7'-10"	1 3/4"	1	H.M.	2/A9.01	6/A9.01, SIM 5/A9.01	9/A9.01	PNTD.	1	N/A	UNRATED	1
105	B	H.M.	3'-0"x7'-10"	1 3/4"	1	H.M.	2/A9.01	6/A9.01, SIM 5/A9.01	9/A9.01	PNTD.	1	N/A	UNRATED	1

REMARKS:
1) DOOR EQUIPPED W/ VANDAL RESISTANT LOUVER, SEE ELEVATION.
2) MAX. OPENING FORCE IS 10 LBS
3) DOOR CLOSING SPEED: FROM 90 DEG. TO 12 DEG. 5 SECONDS MIN.

>>>>CAUTION - CALL 811<<<<
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NO.	REVISION - AS BUILT	DATE
3		
2		
1		

REVIEWED: _____ PARK ENGINEER _____ DATE

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Seattle Parks & Recreation

GAS WORKS PARK

Gas Works Park - Comfort Station & East Entry/ADA - 95% CD

DOOR & FINISH SCHEDULE

DESIGNED _____ DATE December 4, 2020
DRAWN _____
CHECKED _____ SHEET ____ OF ____

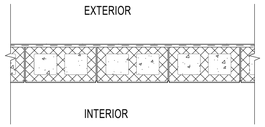
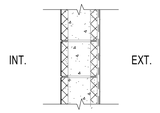
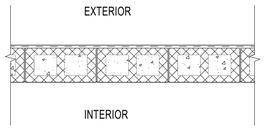
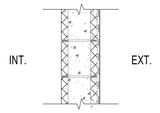
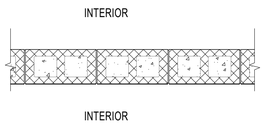
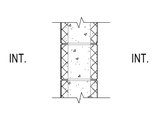
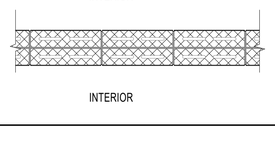
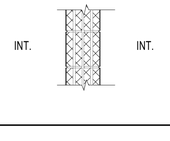
ORDINANCE NO.
GW CS - 124590 - 2008 PLF
SDOT Sidewalk – 125207 – REET 1
East Entry/ADA – 125207 - REET I

CONTRACT NO. 2055

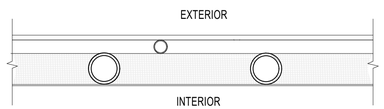
SCALE AS NOTED

A0.01

WALL TYPES

NO.	PLAN ILLUSTRATION	SECTION ILLUSTRATION	DESCRIPTION	R-VALUES	NOTES
A			TYPE A: PARGE COAT / GCMU WALL (EXTERIOR) EPOXY PAINT PARGE COAT GLAZED CONCRETE MASONRY UNIT FACE @ INTERIOR	N/A - NON-CONDITIONED SPACE	
B			TYPE B: PARGE COAT / CMU WALL (EXTERIOR) EPOXY PAINT PARGE COAT INTERIOR CMU FACE, PAINTED	N/A - NON-CONDITIONED SPACE	SEE SPECIFICATION SECTION 04 20 00 - UNIT MASONRY SEE STRUCTURAL FOR GROUTING REQUIREMENTS
C			TYPE C: GCMU WALL (INTERIOR) CLEAR PENETRATING MASONRY SEALER ON NON-GLAZED FACE OF GCMU CMU, PAINTED GLAZED CONCRETE MASONRY UNIT FACE @ INTERIOR	N/A - INTERIOR PARTITION	SEE SPECIFICATION SECTION 04 20 00 - UNIT MASONRY SEE STRUCTURAL FOR GROUTING REQUIREMENTS
D			TYPE D: DOUBLE WYTHE GCMU WALL (INTERIOR) DOUBLE WYTHE GCMU WALL	N/A - INTERIOR PARTITION	SEE SPECIFICATION SECTION 04 20 00 - UNIT MASONRY SEE STRUCTURAL FOR GROUTING REQUIREMENTS

ROOF TYPES

NO.	SECTION ILLUSTRATION	DESCRIPTION	R-VALUES	NOTES
R1		TYPE R1: CORRUGATED METAL ROOF PREFINISHED CORRUGATED METAL ROOF FASTENED TO PAINTED STEEL PIPE JOIST OVER PAINTED STEEL BEAM ROOF STRUCTURE	N/A - NON-CONDITIONED SPACE	SEE SPECIFICATION SECTION 07 41 13 - METAL ROOF PANELS

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NO.	REVISION - AS BUILT	DATE
3		
2		
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REVIEWED: _____ PARK ENGINEER _____ DATE

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CHRISTOPHER S. PATANO
STATE OF WASHINGTON
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Seattle Parks & Recreation

GAS WORKS PARK

Gas Works Park - Comfort Station & East Entry/ADA - 95% CD

WALL AND ROOF SCHEDULE

DESIGNED _____ DATE December 4, 2020
DRAWN _____
CHECKED _____ SHEET ____ OF ____

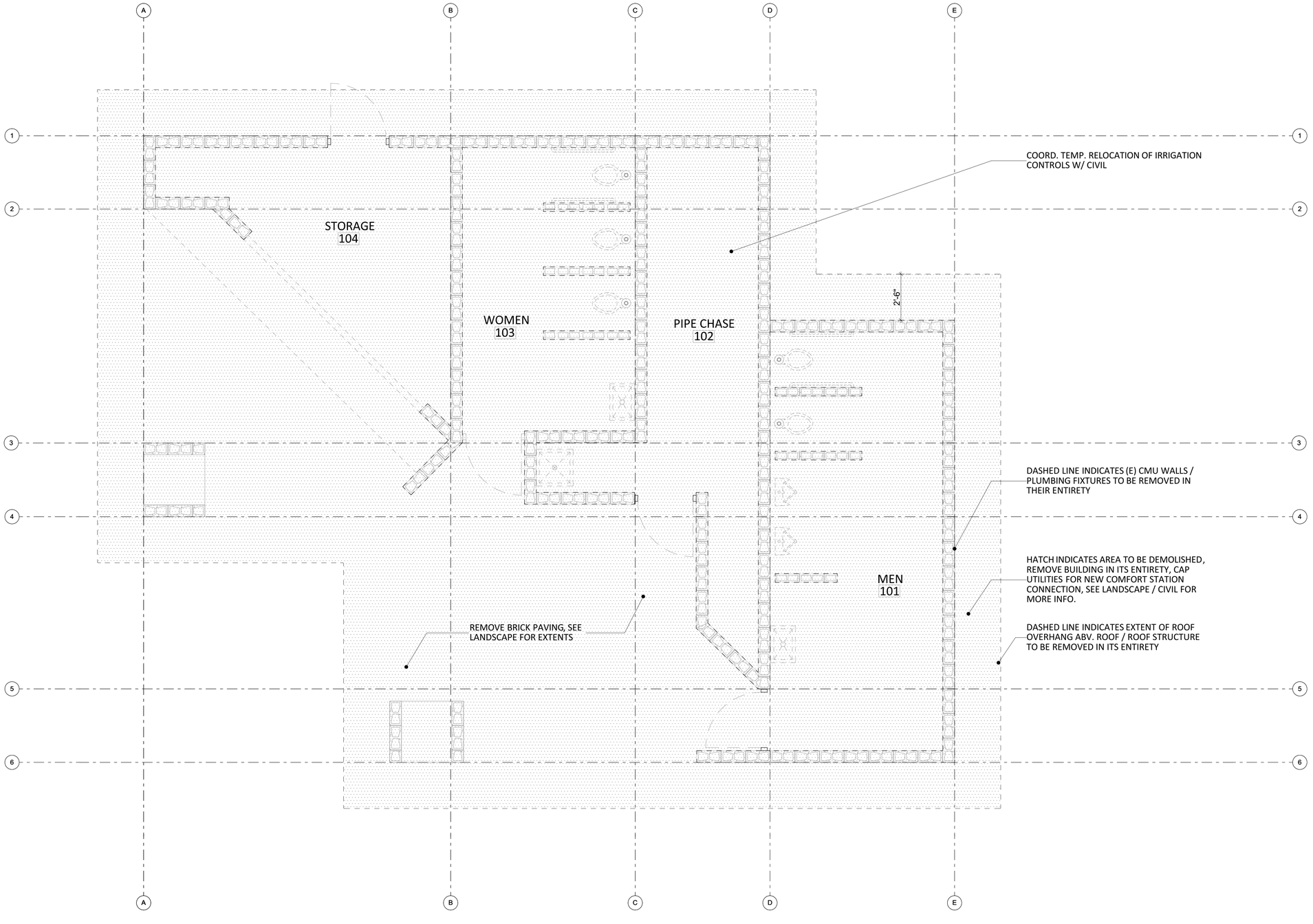
ORDINANCE NO.
GW CS - 124590 - 2008 PLF
SDOT Sidewalk – 125207 – REET 1
East Entry/ADA – 125207 - REET I

CONTRACT NO. 2055

SCALE AS NOTED

A0.02

NOTE: SEE CIVIL CAPPING OF EXISTING UTILITIES



1 DEMO PLAN

SCALE: 3/8" = 1'-0"

0 2' 4' 6'

N

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REVIEWED: _____ _____
PARK ENGINEER DATE

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DEMO FLOOR PLAN

DESIGNED _____ DATE December 4, 2020
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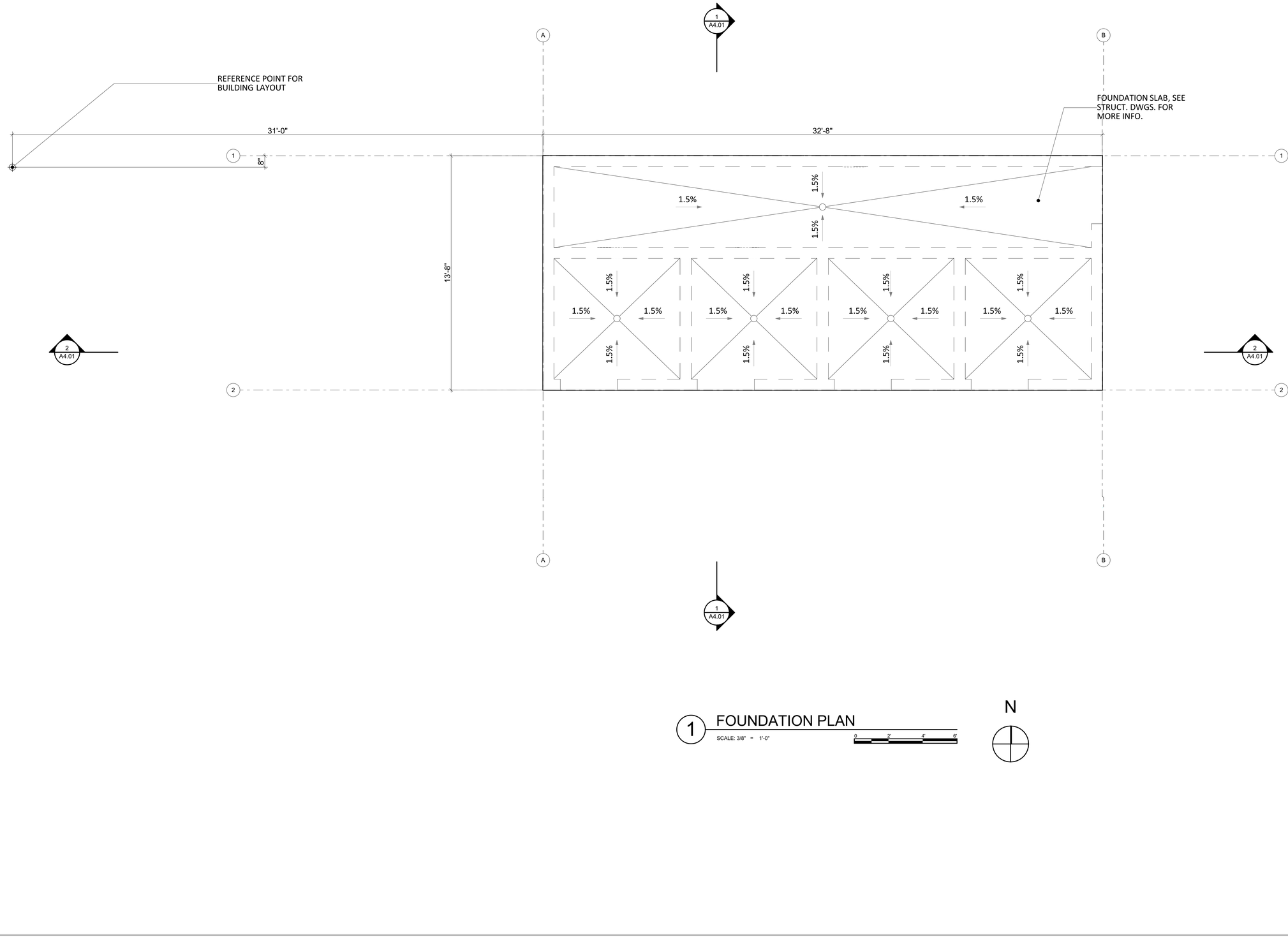
ORDINANCE NO.
GW CS - 124590 - 2008 PLF
SDOT Sidewalk – 125207 – REET 1
East Entry/ADA – 125207 - REET I

CONTRACT NO. 2055

SCALE AS NOTED

AD1.01



1 FOUNDATION PLAN

SCALE: 3/8" = 1'-0"

0 2" 4" 6"

N

>>>>CAUTION - CALL 811<<<<
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FOUNDATION PLAN

DESIGNED _____
DRAWN _____
CHECKED _____
DATE December 4, 2020
SHEET ____ OF ____

ORDINANCE NO.
GW CS - 124590 - 2008 PLF
SDOT Sidewalk – 125207 – REET 1
East Entry/ADA – 125207 - REET I

CONTRACT NO. 2055

SCALE AS NOTED

A2.00

FINISH LEGEND	
S1 — PARGE COAT, PNTD. P1, SEE SPECIFICATIONS SECTION 09 90 00 - PAINT AND COATINGS	GC1 — WHITE GLAZED CMU (GCMU), SEE SPECIFICATIONS SECTION 04 20 00 - UNIT MASONRY
P1 — PAINT COLOR 1, SEE SPECIFICATIONS SECTION 09 90 00 - PAINT AND COATINGS	GC2 — GREY GLAZED CMU (GCMU), SEE SPECIFICATIONS SECTION 04 20 00 - UNIT MASONRY
P2 — PAINT COLOR 2, SEE SPECIFICATIONS SECTION 09 90 00 - PAINTS AND COATINGS	EP1 — EPOXY PAINT / COATING, SEE SPECIFICATIONS SECTION 09 90 00 - PAINTS AND COATINGS
BC — LIGHT BROOM FINISH CONCRETE, SEE SPECIFICATION SECTION 03 35 00 - CONCRETE FINISH	
NOTES: REFER TO FINISH SCHEDULE (A0.01) FOR MORE INFORMATION.	

CRUSHED ROCK GRAVEL PATH, REF. CIVIL/LANDSCAPE

REFERENCE POINT FOR BUILDING LAYOUT

31'-0"

PAVERS, SEE LANDSCAPE DRAWINGS FOR MORE INFO.

12'-1 3/4" O.H.

DASHED LINE INDICATES ROOF OVERHANG ABV., SEE ROOF PLAN FOR MORE INFO.

SITE WALL PER CIVIL / LANDSCAPE DWGS.

MECH. LOUVER SEE SCHED., SEE ELEV., SEE MECH FOR MORE INFO.

HWH. SEE PLUMBING FOR MORE INFO.

1'-0" O.H.

LOUVER SEE SCHED., SEE INT. ELEV., MECH. FOR MORE INFO.

DASHED LINE INDICATES RIDGE OF ROOF ABOVE

DASHED LINE INDICATES SPACE NEEDED TO MOUNT PLUMBING FIXTURES

BUILDING FOOTING / SITE WALL

CHASE 101

RESTROOM 102 | RESTROOM 103 | RESTROOM 104 | RESTROOM 105

FD

EQ. 2'-10" EQ.

8'-0" O.H.

8" | 3'-4" M.O. | 2'-1 1/8" | 13'-8"

3'-1/2" O.H.

USE 4" BLOCK AT RECESSED CHANGING STATION, TYP.

DASHED LINES INDICATES ADA MANEUVERING CLEARANCE @ DOOR / FIXTURES, TYP.

SITE WALL PER CIVIL/ LANDSCAPE DWGS.

4 3/8" | 7 3/4" | 3'-4" M.O. | 4'-4" | 4" | 3'-4" M.O. | 4'-4" | 4" | 3'-4" M.O. | 4'-4" | 4" | 3'-4" M.O. | 4'-3 7/8"

32'-8"

CATCH BASIN, REF. CIVIL

RAMP, SEE LANDSCAPE/CIVIL DRAWINGS

ASPHALT, SEE LANDSCAPE DRAWINGS FOR MORE INFO.

N

0 2' 4' 6'

1 FLOOR PLAN

SCALE: 3/8" = 1'-0"

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FLOOR PLAN

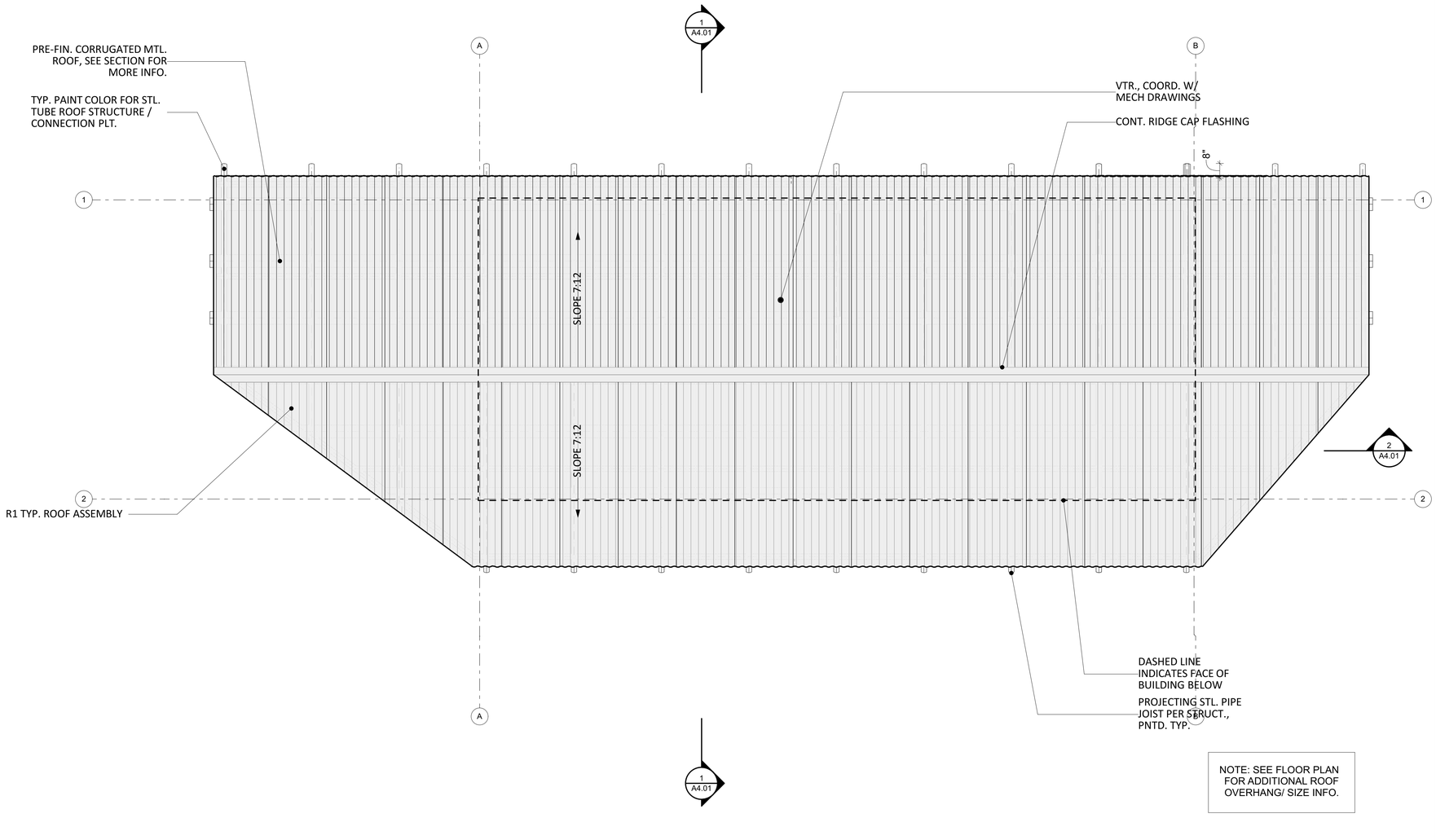
DESIGNED
DRAWN
CHECKED
DATE December 4, 2020
SHEET ____ OF ____

ORDINANCE NO.
GW CS - 124590 - 2008 PLF
SDOT Sidewalk – 125207 – REET 1
East Entry/ADA – 125207 - REET I

CONTRACT NO. 2055

SCALE AS NOTED

A2.01



1 ROOF PLAN

SCALE: 3/8" = 1'-0"

0 2' 4' 6'

N

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ROOF PLAN

DESIGNED _____ DATE December 4, 2020
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CHECKED _____ SHEET ____ OF ____

ORDINANCE NO.
GW CS - 124590 - 2008 PLF
SDOT Sidewalk – 125207 – REET 1
East Entry/ADA – 125207 - REET I

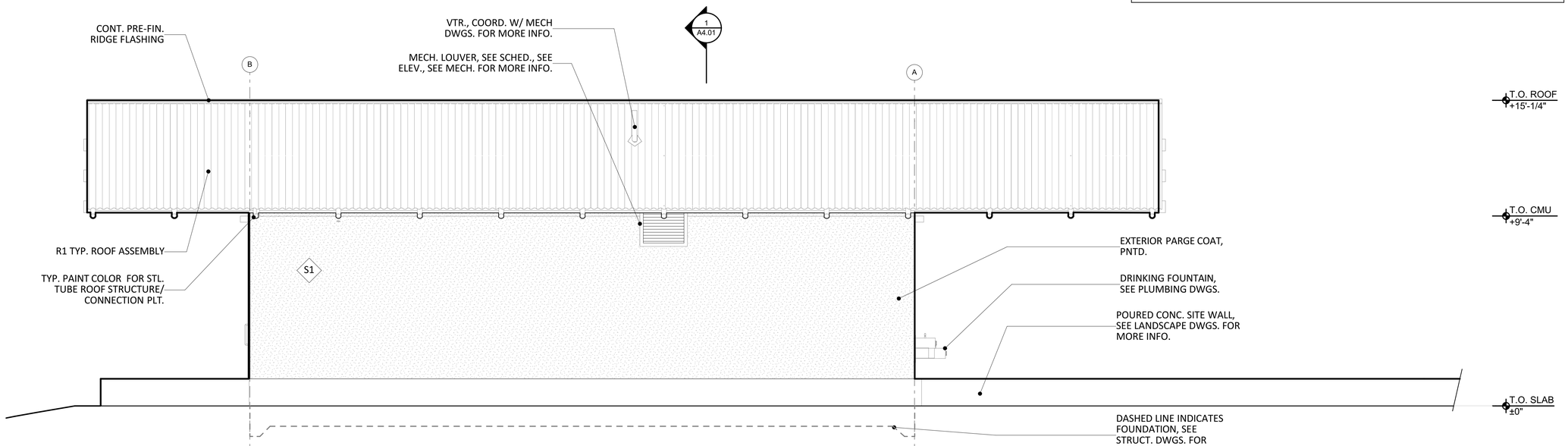
CONTRACT NO. 2055

SCALE AS NOTED

A2.02

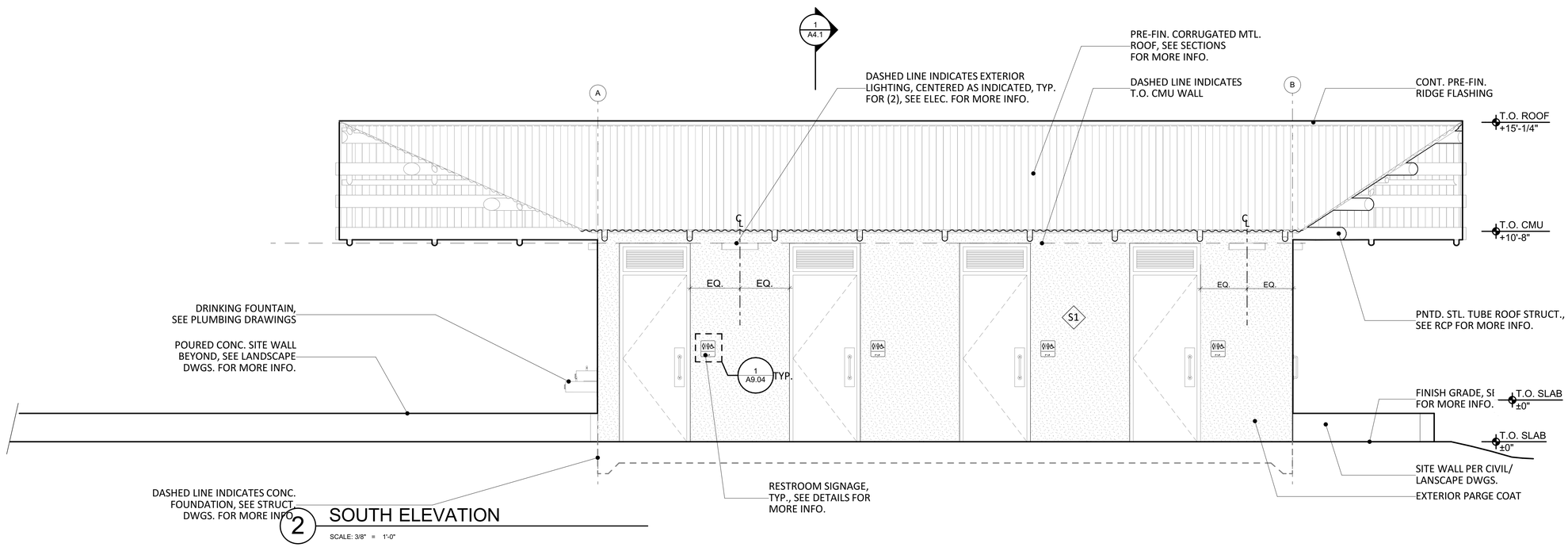
FINISH LEGEND	
S1 — PARGE COAT, PNTD. P1, SEE SPECIFICATIONS SECTION 09 90 00 - PAINT AND COATINGS	GC1 — WHITE GLAZED CMU (GCMU), SEE SPECIFICATIONS SECTION 04 20 00 - UNIT MASONRY
P1 — PAINT COLOR 1, SEE SPECIFICATIONS SECTION 09 90 00 - PAINT AND COATINGS	GC2 — GREY GLAZED CMU (GCMU), SEE SPECIFICATIONS SECTION 04 20 00 - UNIT MASONRY
P2 — PAINT COLOR 2, SEE SPECIFICATIONS SECTION 09 90 00 - PAINTS AND COATINGS	EP1 — EPOXY PAINT / COATING, SEE SPECIFICATIONS SECTION 09 90 00 - PAINTS AND COATINGS
BC — LIGHT BROOM FINISH CONCRETE, SEE SPECIFICATION SECTION 03 35 00 - CONCRETE FINISH	

NOTES: REFER TO FINISH SCHEDULE (A0.01) FOR MORE INFORMATION.



1 NORTH ELEVATION

SCALE: 3/8" = 1'-0"



2 SOUTH ELEVATION

SCALE: 3/8" = 1'-0"

>>>>CAUTION - CALL 811<<<<
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NO.	REVISION - AS BUILT	DATE
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2		
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REVIEWED: _____ _____
PARK ENGINEER DATE

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GAS WORKS PARK

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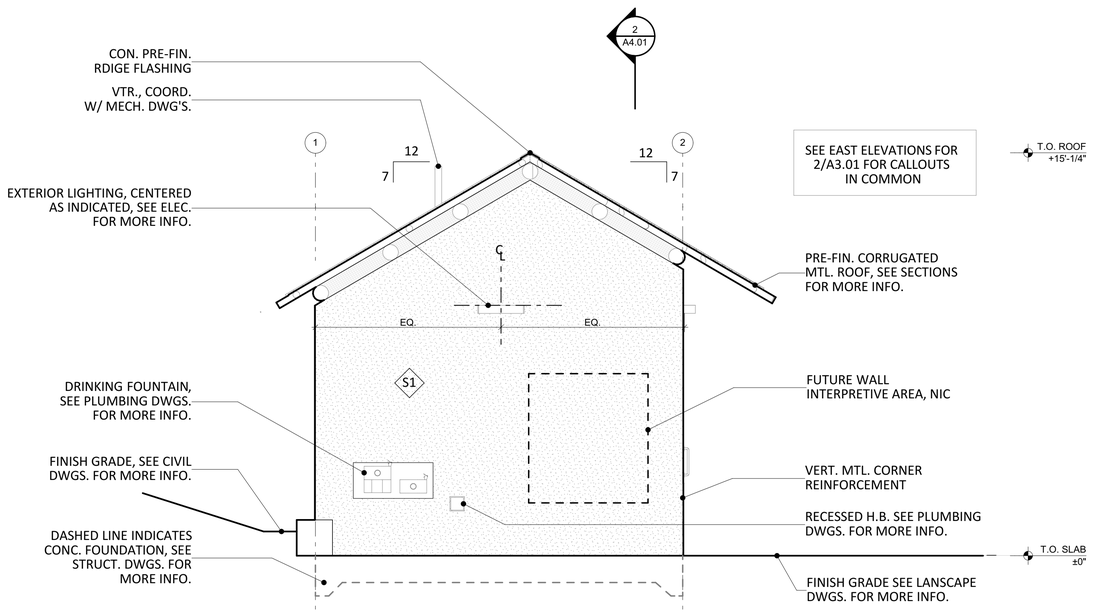
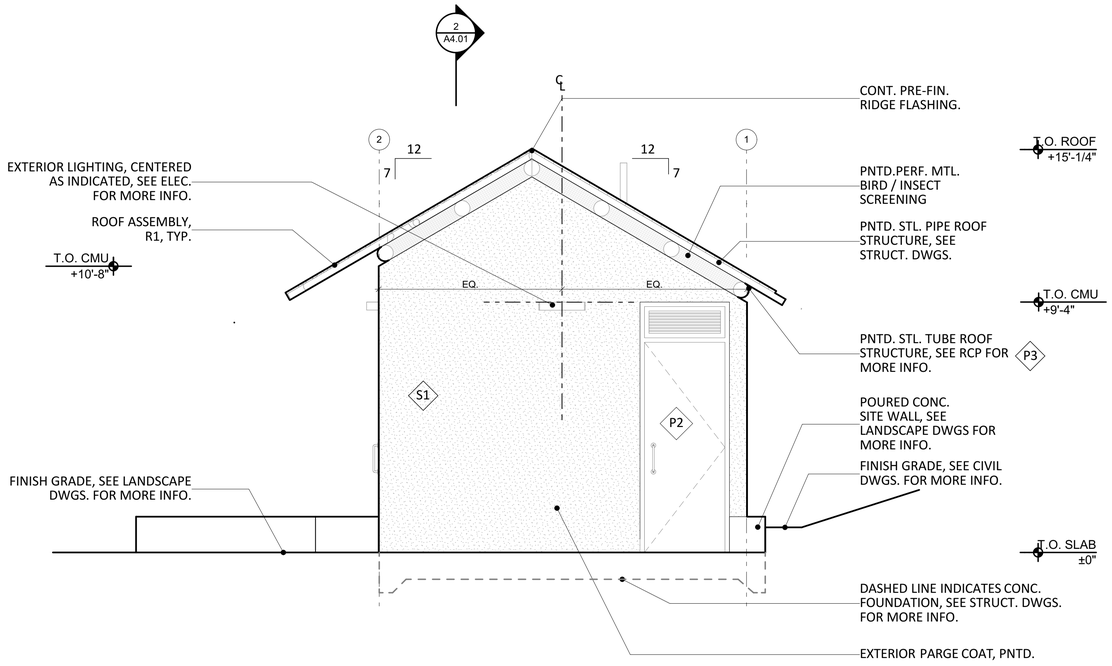
EXTERIOR ELEVATIONS

DESIGNED	DATE December 4, 2020
DRAWN	
CHECKED	SHEET ____ OF ____
ORDINANCE NO. GW CS - 124590 - 2008 PLF; SDOT Sidewalk – 125207 – REET 1; East Entry/ADA – 125207 - REET I	**A3.01**
CONTRACT NO. 2055	
SCALE AS NOTED	



1 WEST ELEVATION

SCALE: 3/8" = 1'-0"



2 EAST ELEVATION

SCALE: 3/8" = 1'-0"

FINISH LEGEND

S1	PARGE COAT PNTD. P1, SEE SPECIFICATIONS SECTION 09 91 13 - EXTERIOR PAINTING
P1	PAINT COLOR 1, SEE SPECIFICATIONS SECTION 09 91 13 - EXTERIOR PAINTING
P2	PAINT COLOR 2, SEE SPECIFICATIONS SECTION 09 91 23 - INTERIOR PAINTING
EP1	EPOXY PAINT / COATING, SEE SPECIFICATIONS SECTION 09 67 23 - RESINOUS FLOORING
EP2	
GC1	WHITE GLAZED CMU (GCMU), SEE SPECIFICATIONS SECTION 04 20 00 - UNIT MASONRY
GC2	GREY GLAZED CMU (GCMU), SEE SPECIFICATIONS SECTION 04 20 00 - UNIT MASONRY
BC	LIGHT BROOM FINISH CONCRETE, SEE SPECIFICATION SECTION 03 35 00 - CONCRETE FINISH

NOTES:
1. REFER TO FINISH SCHEDULE (A0.01) FOR MORE INFORMATION
2. MOUNT ALL BATHROOM ACCESSORIES ACCORDING TO MOUNTING HEIGHTS DIAGRAM
3. SEE SPECIFICATION SECTION 10 28 13 - TOILET ACCESSORIES.

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NO.	REVISION - AS BUILT	DATE
3		
2		
1		

REVIEWED: _____ PARK ENGINEER _____ DATE

All work done in accordance with the City of Seattle Standard Plans and Specifications in effect on the date shown above, and supplemented by Special Provisions.

PATANO STUDIO ARCHITECTURE
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8425 REGISTERED ARCHITECT CHRISTOPHER A. PATANO STATE OF WASHINGTON

NOT FOR CONSTRUCTION

Seattle Parks & Recreation

GAS WORKS PARK

Gas Works Park - Comfort Station & East Entry/ADA - 95% CD

EXTERIOR ELEVATIONS

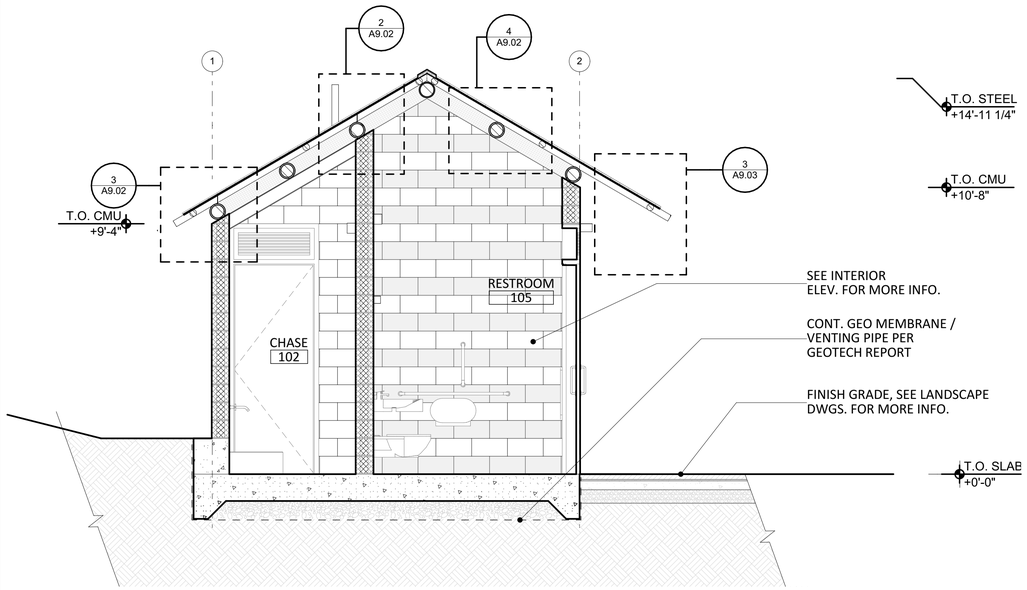
DESIGNED _____ DATE December 4, 2020
DRAWN _____
CHECKED _____ SHEET ____ OF ____

ORDINANCE NO.
GW CS - 124590 - 2008 PLF
SDOT Sidewalk – 125207 – REET 1
East Entry/ADA – 125207 - REET I

CONTRACT NO. 2055

SCALE AS NOTED

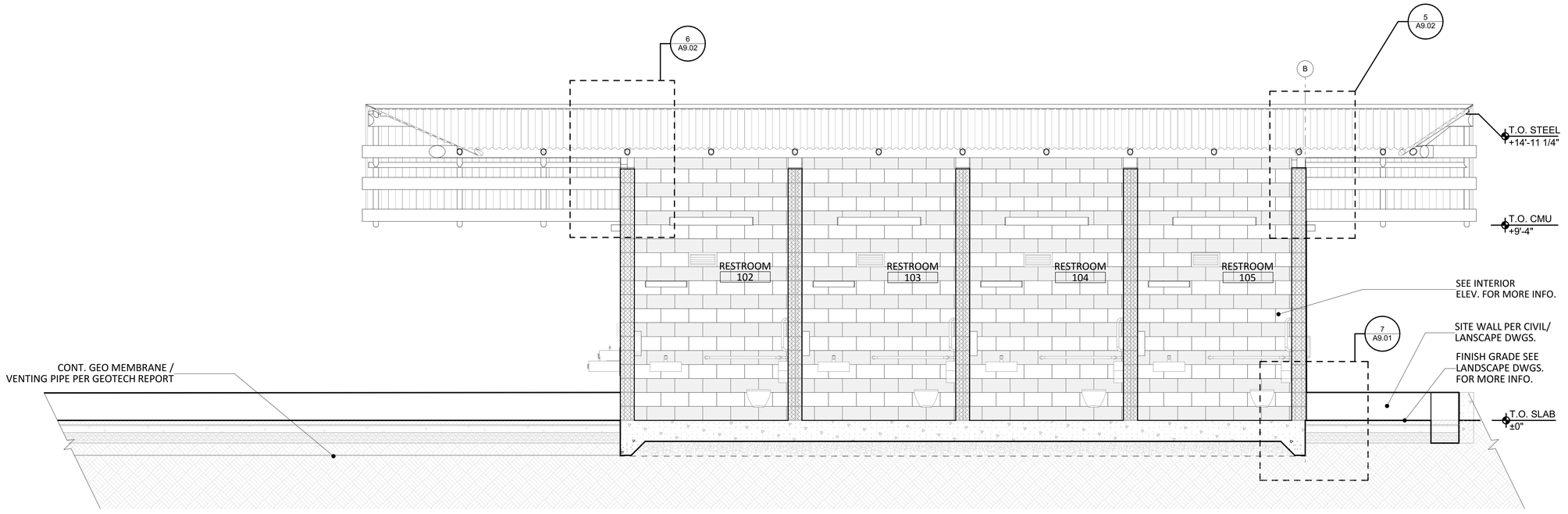
A3.02



1 BLDG. SECTION

SCALE: 3/8" = 1'-0"

0 2' 4' 6'



2 BLDG. SECTION

SCALE: 3/8" = 1'-0"

0 2' 4' 6'

>>>>CAUTION - CALL 811<<<<
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GAS WORKS PARK

Gas Works Park - Comfort Station & East Entry/ADA - 95% CD

BLDG SECTIONS

DESIGNED _____ DRAWN _____ CHECKED _____

DATE December 4, 2020

SHEET ____ OF ____

ORDINANCE NO.
GW CS - 124590 - 2008 PLF
SDOT Sidewalk – 125207 – REET 1
East Entry/ADA – 125207 - REET I

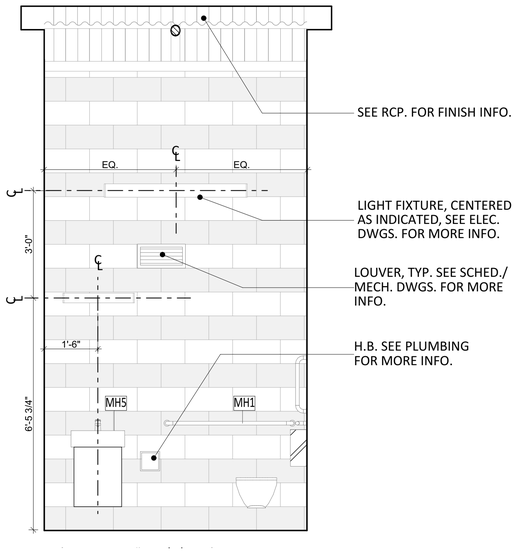
CONTRACT NO. 2055

SCALE AS NOTED

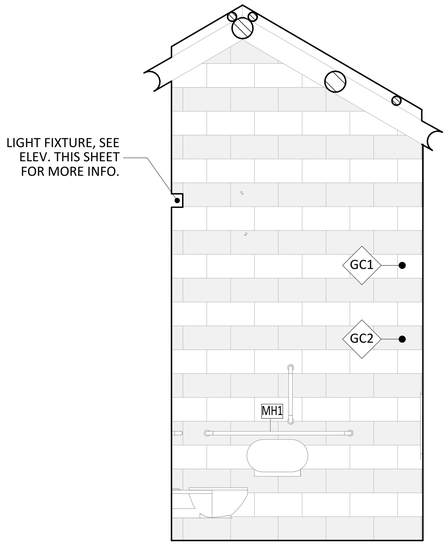
A4.01

FINISH LEGEND		
S1 PARGE COAT, PNTD. P1, SEE SPECIFICATIONS SECTION 09 91 13 - EXTERIOR PAINTING	BC LIGHT BROOM FINISH CONCRETE, SEE SPECIFICATION SECTION 03 35 00 - CONCRETE FINISH	GC2 GREY GLAZED CMU (GCMU), SEE SPECIFICATIONS SECTION 04 20 00 - UNIT MASONRY
P1 PAINT COLOR 1, SEE SPECIFICATIONS SECTION 09 91 13 - EXTERIOR PAINTING	GC1 WHITE GLAZED CMU (GCMU), SEE SPECIFICATIONS SECTION 04 20 00 - UNIT MASONRY	EP1 EPOXY PAINT / COATING, SEE SPECIFICATIONS SECTION 09 67 23 - RESINOUS FLOORING
P2 PAINT COLOR 2, SEE SPECIFICATIONS SECTION 09 91 13 - EXTERIOR PAINTING		

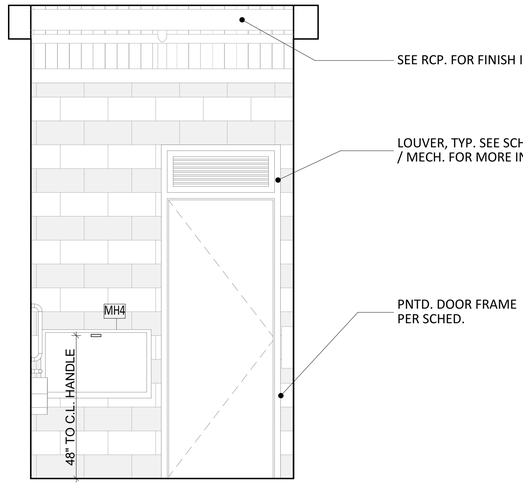
NOTES:
1. REFER TO FINISH SCHEDULE (A0.01) FOR MORE INFORMATION.
2. MOUNT ALL BATHROOM ACCESSORIES ACCORDING TO MOUNTING HEIGHTS DIAGRAM.
3. SEE SPECIFICATION SECTION 102800 - TOILET ACCESSORIES.



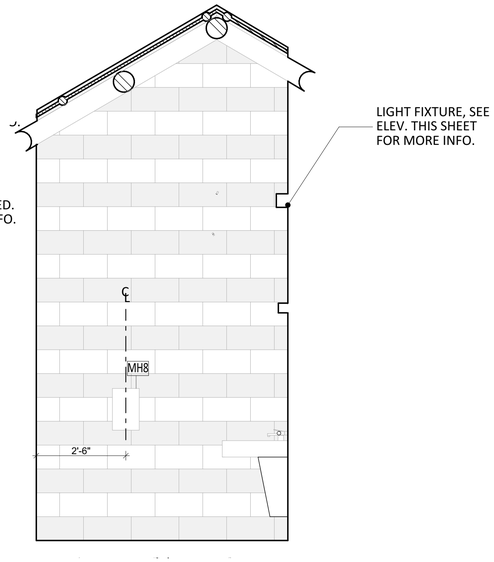
1 RESTROOM - NORTH
SCALE: 1/2" = 1'-0" 0 1' 2' 4'



2 RESTROOM - EAST
SCALE: 1/2" = 1'-0" 0 1' 2' 4'

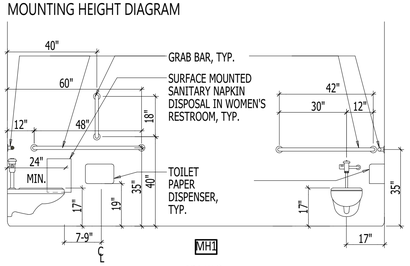


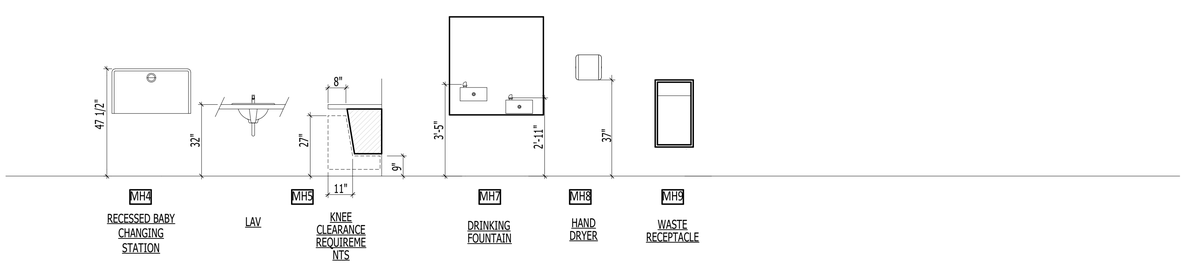
3 RESTROOM - SOUTH
SCALE: 1/2" = 1'-0" 0 1' 2' 4'



4 RESTROOM - WEST
SCALE: 1/2" = 1'-0" 0 1' 2' 4'

MOUNTING HEIGHT DIAGRAM





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NO.	REVISION - AS BUILT	DATE
3		
2		
1		

REVIEWED: _____ PARK ENGINEER _____ DATE

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8425 REGISTERED ARCHITECT CHRISTOPHER S. PATANO STATE OF WASHINGTON

NOT FOR CONSTRUCTION

Seattle Parks & Recreation

GAS WORKS PARK

Gas Works Park - Comfort Station & East Entry/ADA - 95% CD

INTERIOR ELEVATIONS & TYP. MOUNTING HEIGHTS

DESIGNED _____ DATE December 4, 2020
DRAWN _____
CHECKED _____ SHEET ____ OF ____

ORDINANCE NO.
GW CS - 124590 - 2008 PLF
SDOT Sidewalk – 125207 – REET 1
East Entry/ADA – 125207 - REET I

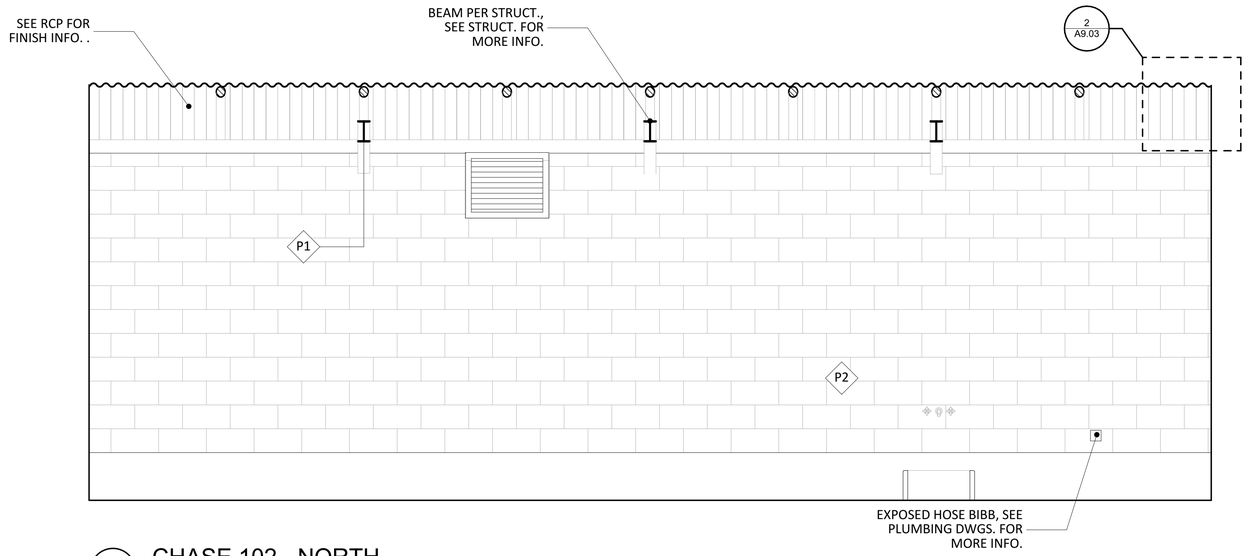
CONTRACT NO. 2055

SCALE AS NOTED

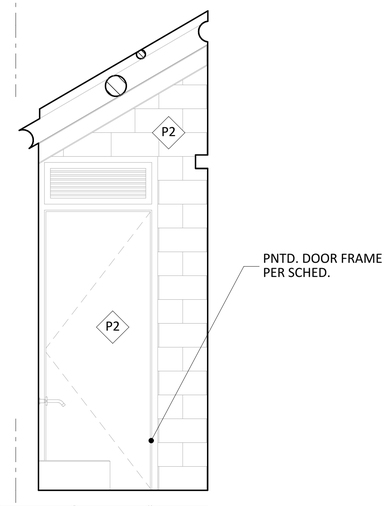
A5.01

FINISH LEGEND		
S1 — PARGE COAT, PNTD. P1, SEE SPECIFICATIONS SECTION 09 91 13 - EXTERIOR PAINTING	BC — LIGHT BROOM FINISH CONCRETE, SEE SPECIFICATION SECTION 03 35 00 - CONCRETE FINISH	GC2 — GREY GLAZED CMU (GCMU), SEE SPECIFICATIONS SECTION 04 20 00 - UNIT MASONRY
P1 — PAINT COLOR 1, SEE SPECIFICATIONS SECTION 09 91 13 - EXTERIOR PAINTING	GC1 — WHITE GLAZED CMU (GCMU), SEE SPECIFICATIONS SECTION 04 20 00 - UNIT MASONRY	EP1 — EPOXY PAINT / COATING, SEE SPECIFICATIONS SECTION 09 67 23 - RESINOUS FLOORING
P2 — PAINT COLOR 2, SEE SPECIFICATIONS SECTION 09 91 13 - EXTERIOR PAINTING		

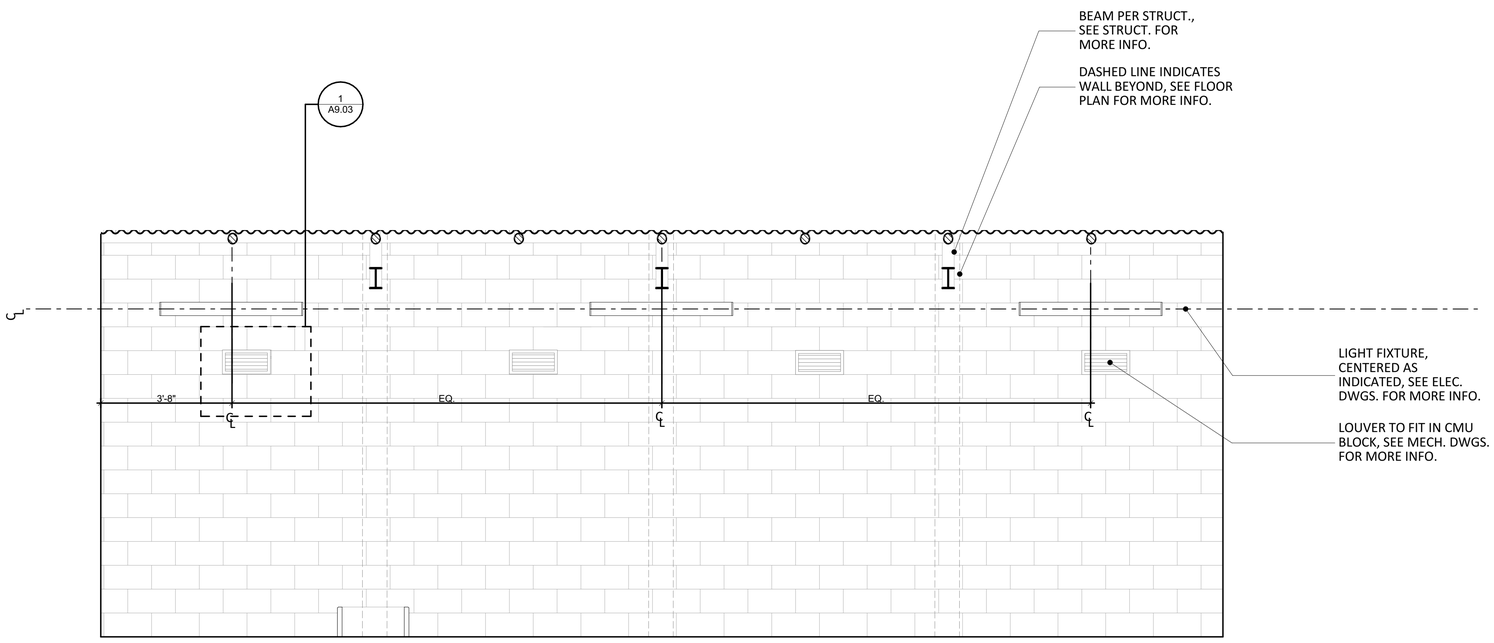
NOTES:
1. REFER TO FINISH SCHEDULE (A0.01) FOR MORE INFORMATION.
2. MOUNT ALL BATHROOM ACCESSORIES ACCORDING TO MOUNTING HEIGHTS DIAGRAM.
3. SEE SPECIFICATION SECTION 102800 - TOILET ACCESSORIES.



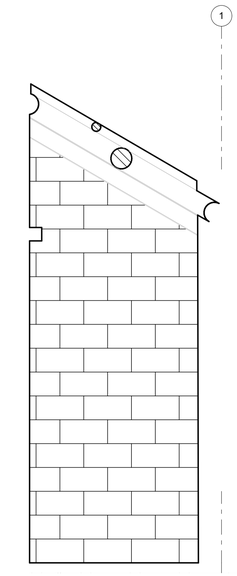
1 CHASE 102 - NORTH
SCALE: 1/2" = 1'-0"



2 CHASE 102 - EAST
SCALE: 1/2" = 1'-0"



3 CHASE 102 - SOUTH
SCALE: 1/2" = 1'-0"



4 CHASE 102 - WEST
SCALE: 1/2" = 1'-0"

>>>>CAUTION - CALL 811<<<<
UTILITY NOTIFICATION CENTER
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NO.	REVISION - AS BUILT	DATE
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REVIEWED: _____ PARK ENGINEER _____ DATE

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Seattle Parks & Recreation

GAS WORKS PARK

Gas Works Park - Comfort Station & East Entry/ADA - 95% CD

INTERIOR ELEVATIONS

DESIGNED _____ DRAWN _____ CHECKED _____
DATE December 4, 2020
SHEET ____ OF ____

ORDINANCE NO.
GW CS - 124590 - 2008 PLF
SDOT Sidewalk – 125207 – REET I
East Entry/ADA – 125207 - REET I

CONTRACT NO. 2055

SCALE AS NOTED

A5.02

RCP LEGEND	
MATERIALS	LIGHT FIXTURES
CMU WALL	WALL MOUNTED
	NOTE: SEE ELECTRICAL DRAWINGS FOR LUMINAIRE SCHEDULE, FOR MORE INFORMATION.

NOTE:
1. COORDINATE LOCATIONS W/ MECH., ELEC., DRAWINGS AND SPECIFICATIONS.
2. SEE ELECTRICAL DRAWINGS FOR LUMINAIRE SCHEDULE, FOR MORE INFORMATION.
3. PLEASE SEE SHEET A1.2 FOR CEILING ASSEMBLY TYPES

FINISH LEGEND		
S1 PARGE COAT, PNTD. P1, SEE SPECIFICATIONS SECTION 09 91 13 - EXTERIOR PAINTING	BC LIGHT BROOM FINISH CONCRETE, SEE SPECIFICATION SECTION 03 35 00 - CONCRETE FINISH	GC2 GREY GLAZED CMU (GCMU), SEE SPECIFICATIONS SECTION 04 20 00 - UNIT MASONRY
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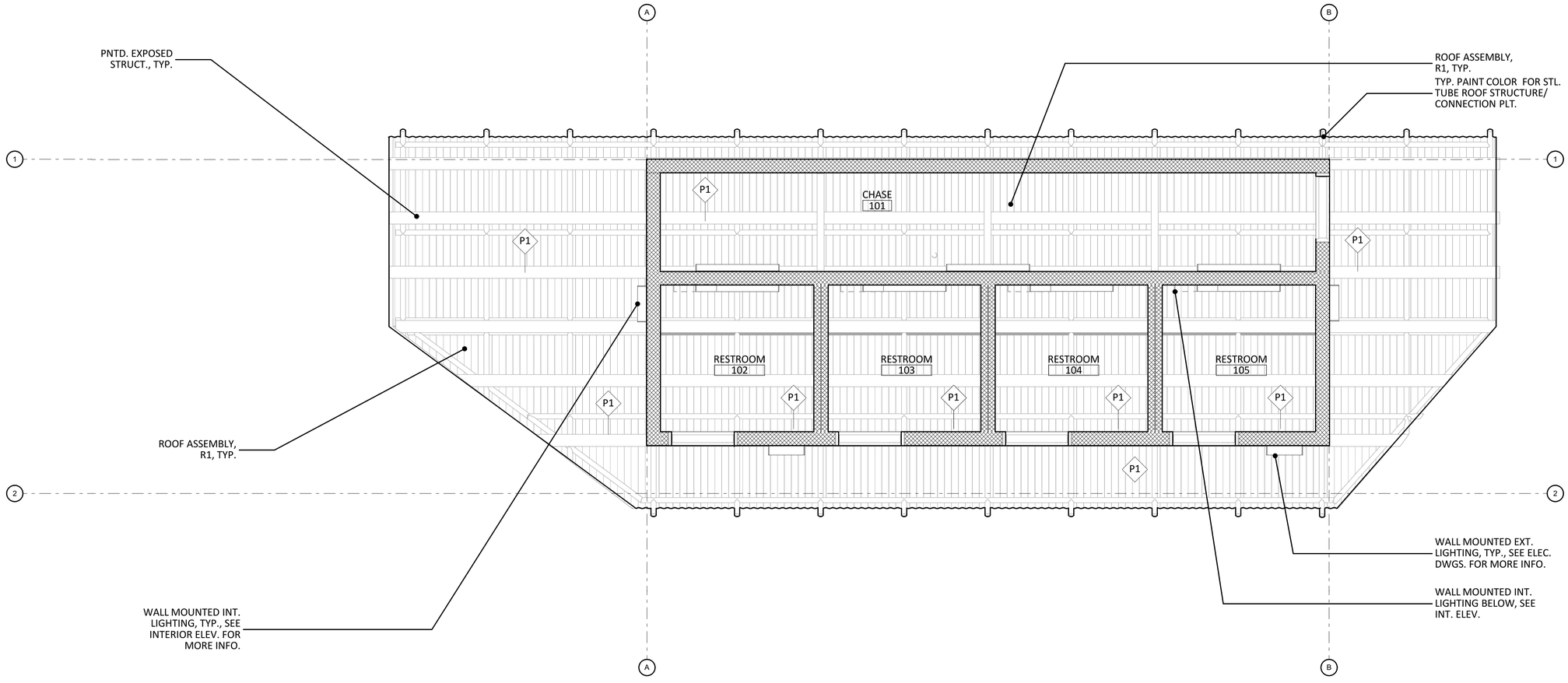

NOTE: COORD. LOUVER LOCATION AS INDICATED IN SCHED, FLOOR PLAN, INT. ELEV. FOR MORE INFO.

N

1 REFLECTED CEILING PLAN

SCALE: 3/8" = 1'-0"

0 2' 4' 6'

>>>>CAUTION - CALL 811<<<<
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NOT FOR CONSTRUCTION

Seattle Parks & Recreation

GAS WORKS PARK

Gas Works Park - Comfort Station & East Entry/ADA - 95% CD

REFLECTED CEILING PLAN

DESIGNED _____
DRAWN _____
CHECKED _____
DATE December 4, 2020
SHEET ____ OF ____

ORDINANCE NO.
GW CS - 124590 - 2008 PLF
SDOT Sidewalk – 125207 – REET 1
East Entry/ADA – 125207 - REET I

CONTRACT NO. 2055

SCALE AS NOTED

A6.01

3 NOT USED

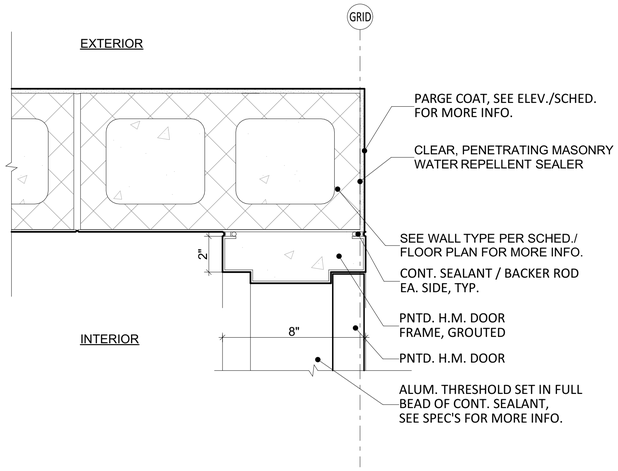
SCALE: 3" = 1'-0"

0 3" 6" 9"

2 DOOR JAMB - CORNER

SCALE: 3" = 1'-0"

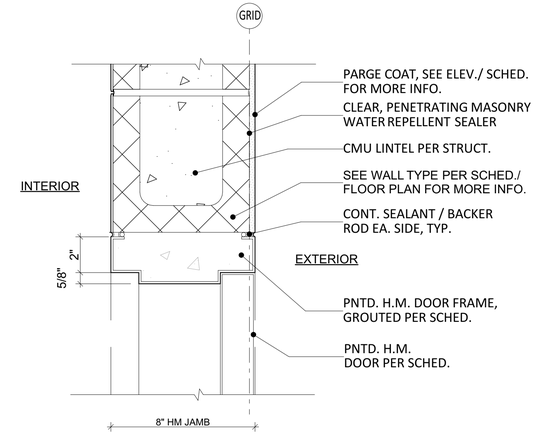
0 3" 6" 9"

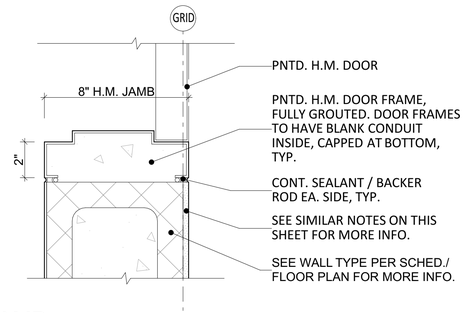


1 HM DOOR HEAD

SCALE: 3" = 1'-0"

0 3" 6" 9"

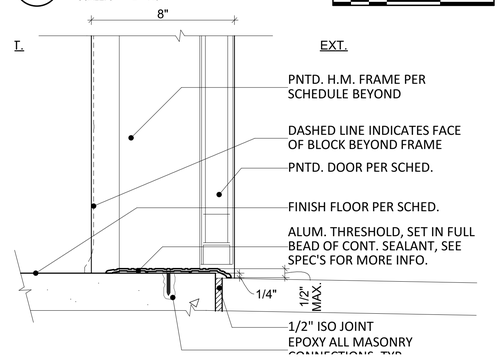




5 DOOR JAMB

SCALE: 3" = 1'-0"

0 3" 6" 9"



4 HM DOOR SILL

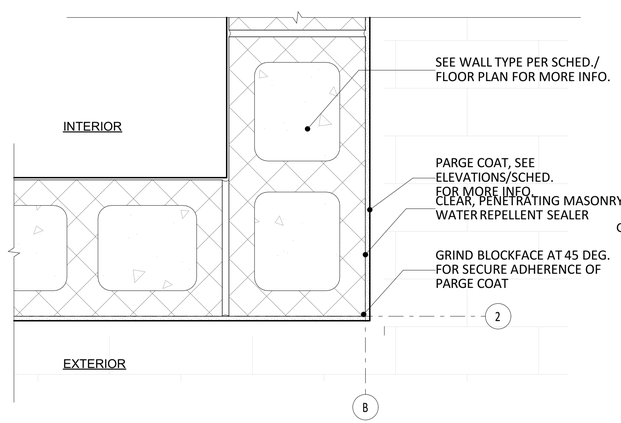
SCALE: 3" = 1'-0"

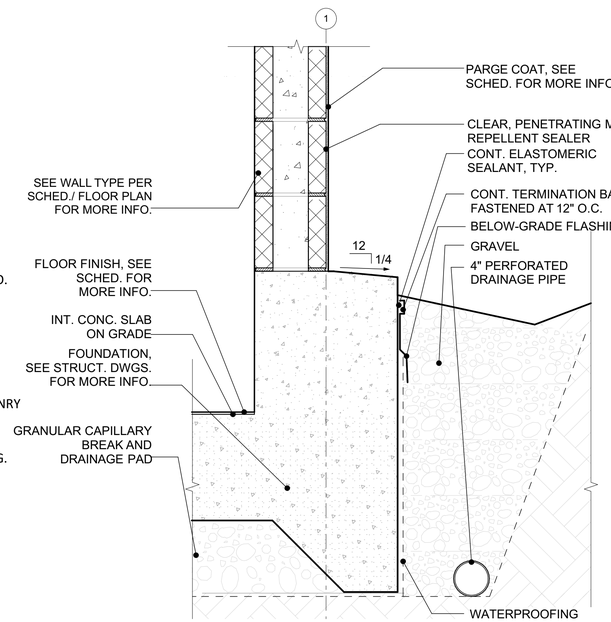
0 3" 6" 9"

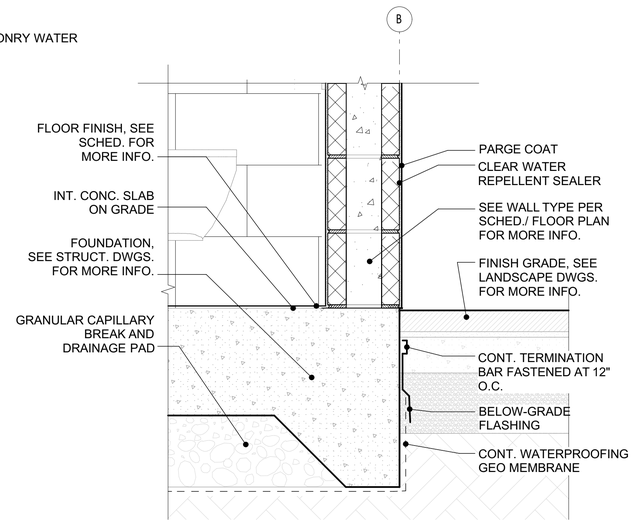
6 NOT USED

SCALE: 3" = 1'-0"

0 3" 6" 9"







9 TYPICAL CORNER WALL DETAIL

SCALE: 3" = 1'-0"

0 3" 6" 9"

8 SOUTH WALL BASE DETAIL

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

0 6" 12" 18"

7 NORTH WALL BASE DETAIL

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

0 6" 12" 18"

>>>>CAUTION - CALL 811<<<<
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REVIEWED:
PARK ENGINEER DATE

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Seattle Parks & Recreation

GAS WORKS PARK

Gas Works Park - Comfort Station & East Entry/ADA - 95% CD

DETAILS

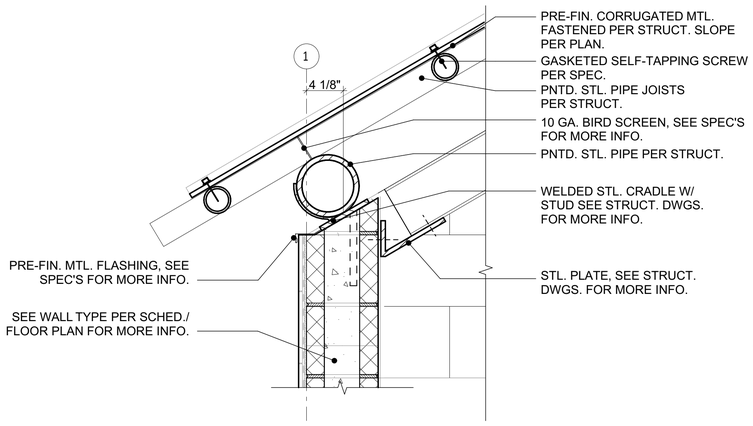
DESIGNED
DRAWN
CHECKED
DATE December 4, 2020
SHEET ____ OF ____

ORDINANCE NO.
GW CS - 124590 - 2008 PLF
SDOT Sidewalk – 125207 – REET 1
East Entry/ADA – 125207 - REET I

CONTRACT NO. 2055

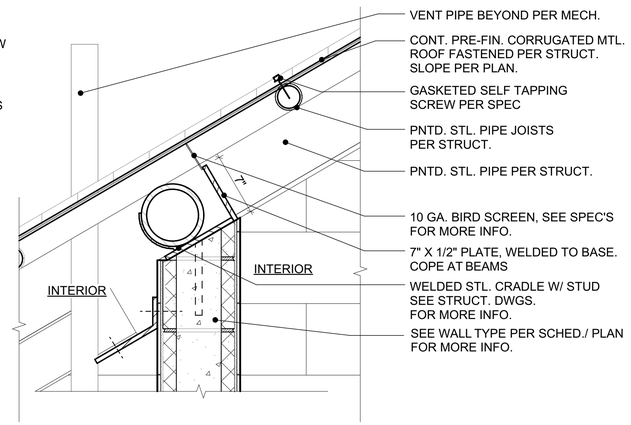
SCALE AS NOTED

A9.01



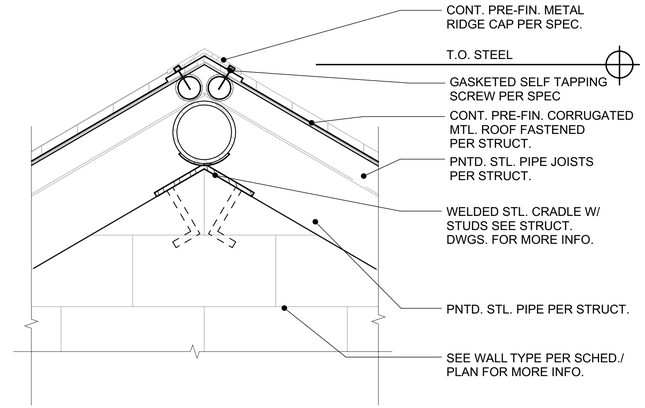
3 ROOF EDGE CONDITION

SCALE: 1 1/2"= 1'-0" 0 6" 12" 18"



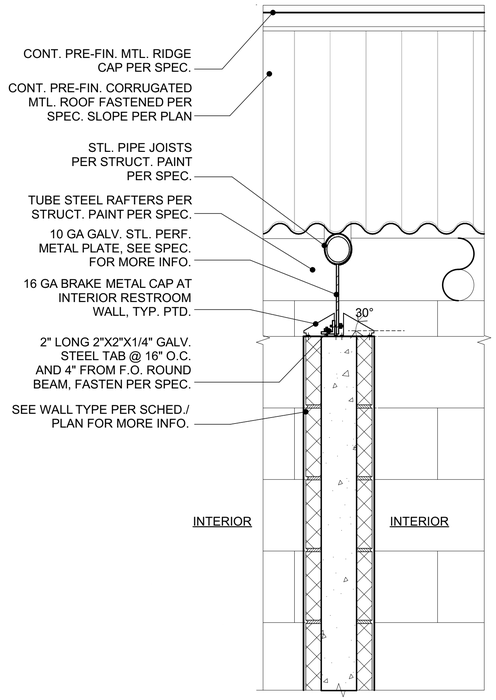
2 TYP. RESTROOM INTERIOR

SCALE: 1 1/2"= 1'-0" 0 6" 12" 18"



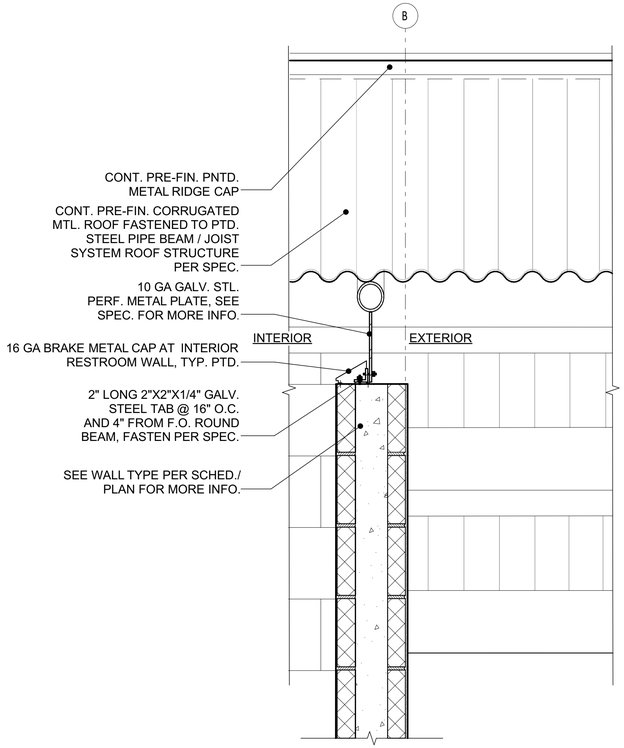
1 ROOF RIDGE CAP

SCALE: 1 1/2"= 1'-0" 0 6" 12" 18"



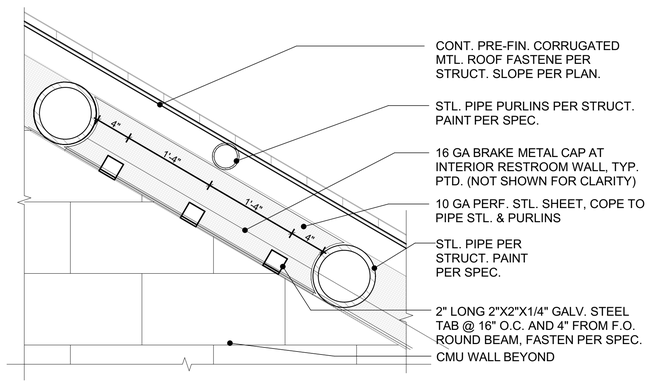
6 INTERIOR UPPER WALL RESTROOM DETAIL

SCALE: 1 1/2"= 1'-0" 0 6" 12" 18"



5 EXTERIOR UPPER WALL DETAIL

SCALE: 1 1/2"= 1'-0" 0 6" 12" 18"



4 EXTERIOR UPPER WALL DETAIL

SCALE: 1 1/2"= 1'-0" 0 6" 12" 18"

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NO.	REVISION - AS BUILT	DATE
3		
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REVIEWED: _____ PARK ENGINEER _____ DATE

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PATANO STUDIO ARCHITECTURE
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8425 REGISTERED ARCHITECT CHRISTOPHER STANLEY PATANO WASHINGTON

NOT FOR CONSTRUCTION

Seattle Parks & Recreation

GAS WORKS PARK

Gas Works Park - Comfort Station & East Entry/ADA - 95% CD

DETAILS

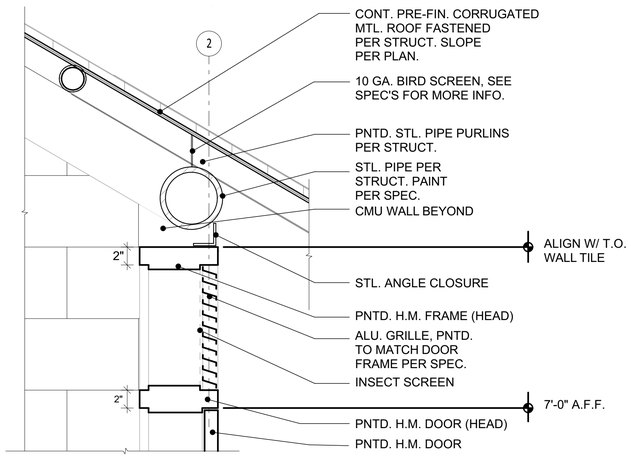
DESIGNED _____ DATE December 4, 2020
DRAWN _____
CHECKED _____ SHEET ____ OF ____

ORDINANCE NO.
GW CS - 124590 - 2008 PLF
SDOT Sidewalk – 125207 – REET 1
East Entry/ADA – 125207 - REET I

CONTRACT NO. 2055

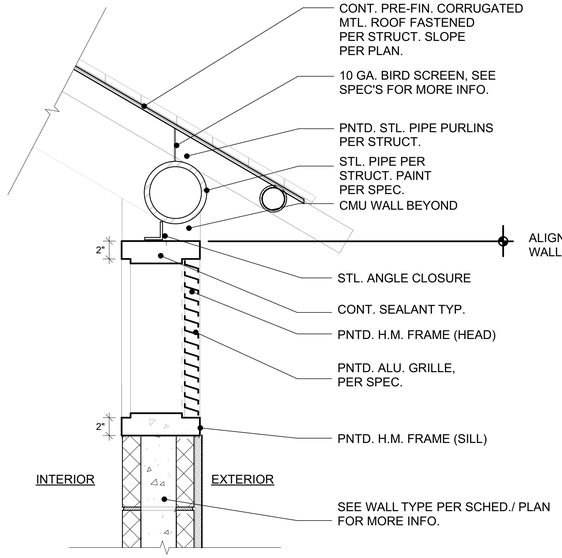
SCALE AS NOTED

A9.02



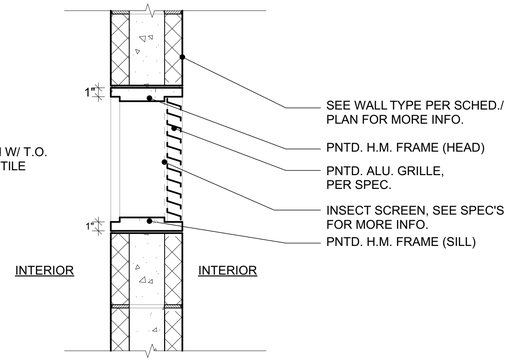
3 DOOR LOUVER DETAIL

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



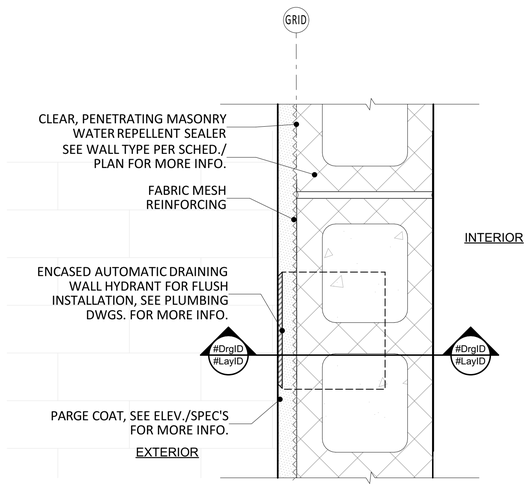
2 MECH. VENT LOUVER 2

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



1 VENT LOUVER 1

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



5 HOSE BIBB DETAIL

SCALE: 3" = 1'-0"

4 NOT USED

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

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3		
2		
1		

REVIEWED: _____ PARK ENGINEER _____ DATE

All work done in accordance with the City of Seattle Standard Plans and Specifications in effect on the date shown above, and supplemented by Special Provisions.

PATANO STUDIO ARCHITECTURE
623 STEWART ST., SUITE #100, SEATTLE, WA 98101
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NOT FOR CONSTRUCTION

Seattle Parks & Recreation

GAS WORKS PARK

Gas Works Park - Comfort Station & East Entry/ADA - 95% CD

DETAILS

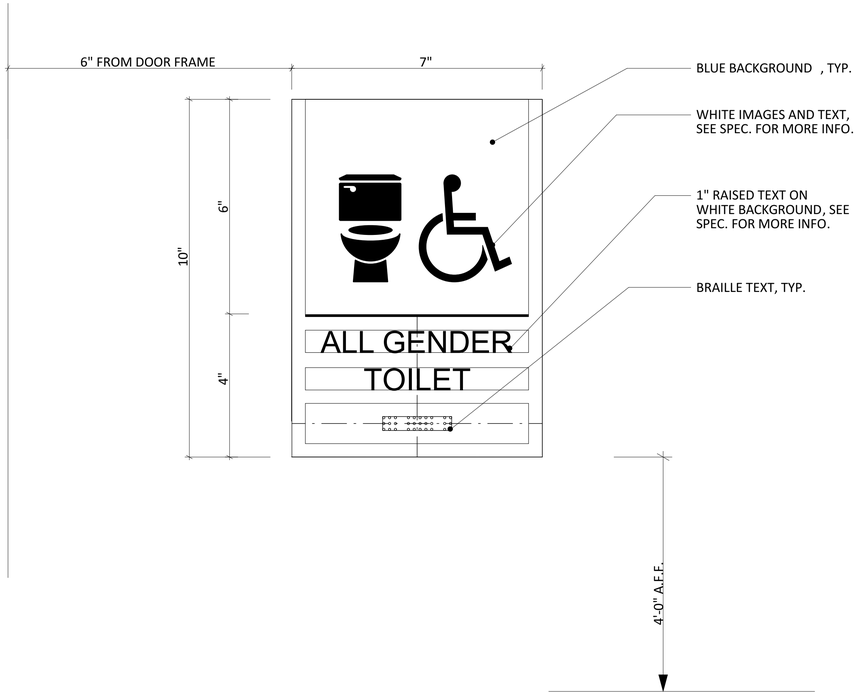
DESIGNED _____ DATE December 4, 2020
DRAWN _____
CHECKED _____ SHEET ____ OF ____

ORDINANCE NO.
GW CS - 124590 - 2008 PLF
SDOT Sidewalk – 125207 – REET 1
East Entry/ADA – 125207 - REET I

CONTRACT NO. 2055

SCALE AS NOTED

A9.03



1 TYPICAL RESTROOM SIGNAGE

SCALE: 6" = 1'-0"

0 1" 2" 4"

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REVIEWED: _____ _____
PARK ENGINEER DATE

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DETAILS - SIGNAGE

DESIGNED _____
DRAWN _____
CHECKED _____

DATE December 4, 2020

SHEET ____ OF ____

ORDINANCE NO.
GW CS - 124590 - 2008 PLF
SDOT Sidewalk – 125207 – REET 1
East Entry/ADA – 125207 - REET I

CONTRACT NO. 2055

SCALE AS NOTED

A9.04

GENERAL STRUCTURAL NOTES

(The following apply unless shown otherwise on the plans)

CRITERIA

1. ALL MATERIALS, WORKMANSHIP, DESIGN, AND CONSTRUCTION SHALL CONFORM TO THE DRAWINGS, SPECIFICATIONS, THE 2015 EDITION OF THE INTERNATIONAL BUILDING CODE (IBC), AND THE SEATTLE DEPARTMENT OF CONSTRUCTION AND INSPECTION (DCI) BUILDING CODE MODIFICATIONS TO THE IBC.

2. DESIGN LOADING CRITERIA

ROOF SNOW LOAD	25 PSF
FLOOR LIVE LOAD	100 PSF
WIND	ANALYSIS PROCEDURE: ASCE 7-10 CHAPTER 28 "ENVELOPE PROCEDURE – PART II"
	RISK CATEGORY II
	110 MPH
	EXPOSURE "C"
	TOPOGRAPHIC FACTOR Kzt = 1.0
	WIND BASE SHEAR, NORTH/SOUTH Vw = 11.3 K
	WIND BASE SHEAR, EAST/WEST Vw = 3.0 K
EARTHQUAKE	ANALYSIS PROCEDURE: IBC "EQUIVALENT LATERAL FORCE PROCEDURE"
	SEISMIC DESIGN CATEGORY (SDC) = D
	RISK CATEGORY = II
	SEISMIC SITE CLASS = D
	IMPORTANCE FACTOR Ie = 1.0
	MAPPED MCE Ss = 1.30; S1 = 0.50
	DESIGN ACCELERATION Sds = 0.87; Sd1 = 0.50
	SEISMIC RESISTING SYSTEM: SPECIAL REINFORCED MASONRY SHEAR WALLS, R = 5.0
	SEISMIC BASE SHEAR Vs = 19.6 K

3. LATERAL LOADS ARE TRANSFERRED BY THE ROOF AND FLOOR DIAPHRAGMS TO THE SHEAR WALLS. FORCES ARE BASED ON THE TRIBUTARY AREA FOR EACH SHEAR WALL AND ARE CARRIED BY THE SHEAR WALLS TO THE FOUNDATION.

4. STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH ARCHITECTURAL DRAWINGS FOR BIDDING AND CONSTRUCTION. CONTRACTOR SHALL VERIFY DIMENSIONS AND CONDITIONS FOR COMPATIBILITY AND SHALL NOTIFY ARCHITECT OF ANY DISCREPANCIES PRIOR TO CONSTRUCTION.

5. CONTRACTOR SHALL PROVIDE TEMPORARY BRACING FOR THE STRUCTURE AND STRUCTURAL COMPONENTS UNTIL ALL FINAL CONNECTIONS HAVE BEEN COMPLETED IN ACCORDANCE WITH THE PLANS.

6. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SAFETY PRECAUTIONS AND THE METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES REQUIRED TO PERFORM THEIR WORK. THE STRUCTURAL ENGINEER HAS NO OVERALL SUPERVISORY AUTHORITY OR ACTUAL AND/OR DIRECT RESPONSIBILITY FOR THE SPECIFIC WORKING CONDITIONS AT THE SITE AND/OR FOR ANY HAZARDS RESULTING FROM THE ACTIONS OF ANY TRADE CONTRACTOR. THE STRUCTURAL ENGINEER HAS NO DUTY TO INSPECT, SUPERVISE, NOTE, CORRECT, OR REPORT ANY HEALTH OR SAFETY DEFICIENCIES OF THE OWNER, CONTRACTORS, OR OTHER ENTITIES OR PERSONS AT THE PROJECT SITE.

7. CONTRACTOR-INITIATED CHANGES SHALL BE SUBMITTED IN WRITING TO THE ARCHITECT AND STRUCTURAL ENGINEER FOR APPROVAL PRIOR TO FABRICATION OR CONSTRUCTION. CHANGES SHOWN ON SHOP DRAWINGS ONLY WILL NOT SATISFY THIS REQUIREMENT.

8. DRAWINGS INDICATE GENERAL AND TYPICAL DETAILS OF CONSTRUCTION. WHERE CONDITIONS ARE NOT SPECIFICALLY INDICATED BUT ARE OF SIMILAR CHARACTER TO DETAILS SHOWN, SIMILAR DETAILS OF CONSTRUCTION SHALL BE USED, SUBJECT TO REVIEW AND APPROVAL BY THE ARCHITECT AND THE STRUCTURAL ENGINEER. WHERE INFORMATION ON THE DRAWINGS IS IN CONFLICT WITH THE SPECIFICATIONS, THE MORE STRINGENT SHALL APPLY, SUBJECT TO REVIEW AND APPROVAL BY THE ARCHITECT AND THE STRUCTURAL ENGINEER. DO NOT SCALE THE DRAWINGS.

9. ALL STRUCTURAL SYSTEMS WHICH ARE COMPOSED OF FIELD ERECTED COMPONENTS SHALL BE SUPERVISED BY THE SUPPLIER DURING MANUFACTURING, DELIVERY, HANDLING, STORAGE AND ERECTION IN ACCORDANCE WITH INSTRUCTIONS PREPARED BY THE SUPPLIER.

10. SHOP DRAWINGS FOR REINFORCING STEEL (FOR BOTH CONCRETE AND MASONRY CONSTRUCTION, AND STRUCTURAL STEEL SHALL BE SUBMITTED TO THE ARCHITECT AND STRUCTURAL ENGINEER FOR REVIEW PRIOR TO FABRICATION OF THESE ITEMS.

11. SHOP DRAWING REVIEW: DIMENSIONS AND QUANTITIES ARE NOT REVIEWED BY THE ENGINEER OF RECORD, AND THEREFORE MUST BE VERIFIED BY THE CONTRACTOR. CONTRACTOR SHALL REVIEW AND STAMP DRAWINGS PRIOR TO REVIEW BY ENGINEER OF RECORD. CONTRACTOR SHALL REVIEW DRAWINGS FOR CONFORMANCE WITH THE MEANS, METHODS, TECHNIQUES, SEQUENCES AND OPERATIONS OF CONSTRUCTION, AND ALL SAFETY PRECAUTIONS AND PROGRAMS INCIDENTAL THERETO. SUBMITTALS SHALL INCLUDE A REPRODUCIBLE AND ONE COPY; REPRODUCIBLE WILL BE MARKED AND RETURNED. A MINIMUM OF TWO WEEKS SHALL BE ALLOWED FOR REVIEW.

12. SHOP DRAWING SUBMITTALS PROCESSED BY THE ENGINEER ARE NOT CHANGE ORDERS. THE PURPOSE OF SHOP DRAWING SUBMITTALS BY THE CONTRACTOR IS TO DEMONSTRATE TO THE ENGINEER THAT THE CONTRACTOR UNDERSTANDS THE DESIGN CONCEPT, BY INDICATING WHICH MATERIAL IS INTENDED TO BE FURNISHED AND INSTALLED AND BY DETAILING THE INTENDED FABRICATION AND INSTALLATION METHODS. IF DEVIATIONS, DISCREPANCIES, OR CONFLICTS BETWEEN SHOP DRAWING SUBMITTALS AND THE CONTRACT DOCUMENTS ARE DISCOVERED EITHER PRIOR TO OR AFTER SHOP DRAWING SUBMITTALS ARE PROCESSED BY THE ENGINEER, THE DESIGN DRAWINGS AND SPECIFICATIONS SHALL CONTROL AND SHALL BE FOLLOWED.

13. SPECIAL INSPECTION: CONCRETE CONSTRUCTION, MASONRY CONSTRUCTION, STEEL FABRICATION AND ERECTION (INCLUDING WELDING AND HIGH-STRENGTH FIELD BOLTING), METAL DECK INSTALLATION, EXPANSION BOLTS AND THREADED EXPANSION INSERTS, SCREW ANCHORS, EPOXY GROUTED INSTALLATIONS, DRIVEN PILE INSTALLATION SHALL BE SUPERVISED IN ACCORDANCE WITH IBC SECTION 1704 AND THE PROJECT SPECIFICATIONS BY A QUALIFIED TESTING AGENCY DESIGNATED BY THE OWNER. THE TESTING AGENCY SHALL SEND COPIES OF ALL STRUCTURAL TESTING AND INSPECTION REPORTS DIRECTLY TO THE OWNER, ARCHITECT, STRUCTURAL ENGINEER, CONTRACTOR AND BUILDING OFFICIAL. ANY MATERIALS WHICH FAIL TO MEET PROJECT SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT.

GEOTECHNICAL

14. FOUNDATION NOTES: SUBGRADE PREPARATION INCLUDING DRAINAGE, EXCAVATION, COMPACTION, AND FILLING REQUIREMENTS, SHALL CONFORM STRICTLY WITH RECOMMENDATIONS GIVEN IN THE GEOTECHNICAL REPORT OR AS DIRECTED BY THE GEOTECHNICAL ENGINEER. FOOTINGS SHALL BEAR ON SOLID UNDISTURBED EARTH (CONTROLLED, COMPACTED STRUCTURAL FILL OR BOTH) AT LEAST 18" BELOW LOWEST ADJACENT FINISHED GRADE. FOOTING DEPTHS/ELEVATIONS SHOWN ON PLANS (OR IN DETAILS) ARE MINIMUM AND FOR GUIDANCE ONLY; THE ACTUAL ELEVATIONS OF FOOTINGS MUST BE ESTABLISHED BY THE CONTRACTOR IN THE FIELD WORKING WITH THE TESTING LAB AND GEOTECHNICAL ENGINEER. UNLESS OTHERWISE NOTED, FOOTINGS SHALL BE CENTERED UNDER COLUMNS OR WALLS ABOVE.

    BACKFILL BEHIND ALL RETAINING WALLS WITH FREE DRAINING GRANULAR FILL AND PROVIDE FOR SUBSURFACE DRAINAGE AS NOTED IN THE GEOTECHNICAL REPORT.

    THE STRUCTURAL DESIGN IS BASED ON THE FOLLOWING VALUES FROM THE REFERENCED GEOTECHNICAL REPORT:

ALLOWABLE SOIL PRESSURE	2,000 PSF
PASSIVE SOIL PRESSURE	350 PCF
SOIL COEFFICIENT OF FRICTION	0.40
PILE CAPACITY (COMPRESSION)	20 KIPS

    GEOTECHNICAL REPORT REFERENCE: #447-056-00 BY GEOENGINEERS, INC. DATED DECMBER 2, 2016.

15. PIPE PILES SHALL BE GALVANIZED SCHEDULE-40 (STD) ASTM A53 (TYPE E OR S, GRADE B) 4 INCH NOMINAL PIPE DRIVEN TO REFUSAL PER THE REQUIREMENTS OF THE GEOTECHNICAL ENGINEER. THE ALLOWABLE AXIAL COMPRESSION CAPACITY SHALL BE 20 KIPS. SECTIONS OF PIPE SHALL BE CONNECTED TOGETHER WITH COMPRESSION FITTED SLEEVE COUPLERS.

16. PIPE PILING INSPECTION SHALL BE CONTINUOUSLY PERFORMED BY THE GEOTECHNICAL ENGINEER DURING PLACEMENT TO CONFIRM THAT THE PILES ARE INSTALLED IN ACCORDANCE WITH THE PLANS AND GEOTECHNICAL REPORT. AT LEAST 3% OF THE 4 INCH PILES SHALL BE LOAD TESTED IN ACCORDANCE WITH ASTM D1143. THE MAXIMUM TEST LOADS SHALL BE 40 KIPS. MAXIMUM PILE MIS-LOCATION SHALL BE 2" LATERALLY. PILE LENGTH INDICATED ON DRAWINGS IS ESTIMATED. ACTUAL LENGTH SHALL BE DETERMINED IN THE FIELD BY THE GEOTECHNICAL ENGINEER. THE CONTRACTOR SHALL DETERMINE THE LOCATION OF ALL ADJACENT UNDERGROUND UTILITIES PRIOR TO DRIVING PILES.

CONCRETE

17. CONCRETE SHALL BE MIXED, PROPORTIONED, CONVEYED AND PLACED IN ACCORDANCE WITH ACI 301. CONSTRUCTION TOLERANCES SHALL NOT EXCEED THOSE LISTED IN ACI 117. CONCRETE SHALL ATTAIN A 28 DAY STRENGTH OF f'c = 3,000 PSI AND MIX SHALL CONTAIN NOT LESS THAN 5-1/2 SACKS OF CEMENT PER CUBIC YARD AND SHALL BE PROPORTIONED TO PRODUCE A SLUMP OF 5" OR LESS (BEFORE THE ADDITION OF ADMIXTURES). THE WATER/CEMENT RATIO SHALL NOT EXCEED 0.55 FOR FOOTINGS AND 0.45 FOR ALL SLABS AND EXPOSED CONCRETE UNLESS OTHERWISE NOTED. EXCEPT FOR FOOTINGS AND SLAB ON GRADE, AGGREGATE SIZE SHALL NOT EXCEED 3/4".

    THE MINIMUM AMOUNT OF CEMENT AND THE MAXIMUM SLUMP MAY BE CHANGED IF A CONCRETE PERFORMANCE MIX IS SUBMITTED TO THE STRUCTURAL ENGINEER AND THE SEATTLE DCI FOR APPROVAL TWO WEEKS PRIOR TO PLACING ANY CONCRETE. THE CONCRETE PERFORMANCE MIX SHALL INCLUDE THE AMOUNTS OF CEMENT, CEMENTITIOUS MATERIAL, FINE AND COARSE AGGREGATE, WATER AND ADMIXTURES AS WELL AS THE WATER CEMENT RATIO, SLUMP, CONCRETE YIELD AND SUBSTANTIATING STRENGTH DATA IN ACCORDANCE WITH ACI 301. CHEMICAL ADMIXTURES AND FLY ASH SHALL CONFORM TO ASTM C494 AND C618 RESPECTIVELY. FLY ASH PERCENTAGE OF TOTAL CEMENTITIOUS MATERIAL SHALL NOT EXCEED 20%. THE USE OF A PERFORMANCE MIX REQUIRES BATCH PLANT INSPECTION, THE COST OF WHICH SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER. REVIEW OF MIX SUBMITTALS BY THE ENGINEER OF RECORD INDICATES ONLY THAT INFORMATION PRESENTED CONFORMS GENERALLY TO CONTRACT DOCUMENTS. CONTRACTOR MAINTAINS FULL RESPONSIBILITY FOR SPECIFIED PERFORMANCE.

    ALL CONCRETE WITH SURFACES EXPOSED TO STANDING WATER SHALL BE AIR ENTRAINED WITH AN AIR ENTRAINING AGENT CONFORMING TO ASTM C260. TOTAL AIR CONTENT FOR FROST-RESISTANT CONCRETE SHALL BE IN ACCORDANCE WITH ACI 318-14 TABLE 19.3.3.1. ALL CONCRETE EXPOSED TO THE WEATHER AND ALL GARAGE SLABS-ON-GRADE SHALL OBTAIN A 28-DAY STRENGTH f'c OF 3,000 PSI IN ACCORDANCE WITH ACI 318 TABLE 19.3.2.1 AND IBC SECTION 1904.1. THIS INCREASE IN REQUIRED STRENGTH IS FOR DURABILITY ONLY (SPECIAL INSPECTION IS NOT REQUIRED). ALL CONCRETE TO RECEIVE A STEEL TROWELED FINISH SHALL NOT BE AIR-ENTRAINED.

18. REINFORCING STEEL SHALL CONFORM TO ASTM A615 (INCLUDING SUPPLEMENT S1), GRADE 60, fy = 60,000 PSI. EXCEPTIONS: ANY BARS SPECIFICALLY SO NOTED ON THE DRAWINGS AS GRADE 40 SHALL HAVE fy = 40,000 PSI. GRADE 60 REINFORCING STEEL INDICATED ON DRAWINGS TO BE WELDED SHALL CONFORM TO ASTM A706. REINFORCING STEEL COMPLYING WITH ASTM A615 (S1) MAY BE WELDED ONLY IF MATERIAL PROPERTY REPORTS INDICATING CONFORMANCE WITH WELDING PROCEDURES SPECIFIED IN A.W.S. D1.4 ARE SUBMITTED.

19. REINFORCING STEEL SHALL BE DETAILED (INCLUDING HOOKS AND BENDS) IN ACCORDANCE WITH ACI 315 AND 318. LAP ALL CONTINUOUS REINFORCEMENT #5 AND SMALLER 60 BAR DIAMETERS, 2'-0" MINIMUM. PROVIDE CORNER BARS AT ALL WALL AND FOOTING INTERSECTIONS. LAP CORNER BARS #5 AND SMALLER 60 BAR DIAMETERS OR 2'-0" MINIMUM. LAPS OF LARGER BARS SHALL BE MADE IN ACCORDANCE WITH ACI 318, CLASS B. LAP ADJACENT MATS OF WELDED WIRE FABRIC A MINIMUM OF 8" AT SIDES AND ENDS. PROVIDE (2) #5 MIN. U.N.O. TRIM BARS AROUND ALL OPENINGS IN CONCRETE WALLS OR SLABS EXTENDING 2'-6" PAST CORNERS, TYPICAL.

    NO BARS PARTIALLY EMBEDDED IN HARDENED CONCRETE SHALL BE FIELD BENT UNLESS SPECIFICALLY SO DETAILED OR APPROVED BY THE STRUCTURAL ENGINEER. NO REINFORCING BARS SHALL BE "WET-SET" INTO THE CONCRETE. PROVIDE A 20' LONG REBAR GROUND (UFER GROUND) PER ELECTRICIAN.

20. CONCRETE PROTECTION (COVER) FOR REINFORCING STEEL SHALL BE AS FOLLOWS:

FOOTINGS AND OTHER UNFORMED SURFACES CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH	3"
FORMED SURFACES EXPOSED TO EARTH (i.e. WALLS BELOW GROUND) OR WEATHER (#5 BARS OR SMALLER)	1-1/2"
SLABS AND WALLS (INTERIOR FACE)	1"

21. CONCRETE WALL REINFORCING--PROVIDE THE FOLLOWING UNLESS DETAILED OTHERWISE (FOR GRAVITY-ONLY WALLS – USING GRADE 60 REINFORCING):

WALL THICKNESS	VERTICAL BARS	HORIZONTAL BARS
8" WALLS	#4 @ 18" 1 CURTAIN	#4 @ 12" 1 CURTAIN

22. NON-SHRINK GROUT SHALL BE NON-METALLIC CONFORMING TO ASTM C1107 AND BE FURNISHED BY AN APPROVED MANUFACTURER AND SHALL BE MIXED AND PLACED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S PUBLISHED RECOMMENDATIONS. GROUT STRENGTH SHALL BE AT LEAST EQUAL TO THE MATERIAL ON WHICH IT IS PLACED (5000 PSI MINIMUM).

ANCHORAGE

23. EXPANSION BOLTS INTO CONCRETE SHALL BE "STRONG-BOLT 2 WEDGE ANCHOR", AS MANUFACTURED BY SIMPSON STRONG-TIE ANCHOR SYSTEMS. INSTALL IN STRICT ACCORDANCE WITH I.C.C. REPORT NO. ESR-3037 INCLUDING STANDARD EMBEDMENT REQUIREMENTS U.O.N. PROPOSED SUBSTITUTIONS SHALL BE SUBMITTED FOR REVIEW WITH I.C.C. OR IAPMO UES REPORTS INDICATING EQUIVALENT OR GREATER LOAD CAPACITIES. SPECIAL INSPECTION IS REQUIRED FOR ALL EXPANSION BOLT INSTALLATION.

24. EXPANSION BOLTS INTO GROUT FILLED CMU SHALL BE "STRONG-BOLT 2 WEDGE ANCHOR", AS MANUFACTURED BY SIMPSON STRONG-TIE ANCHOR SYSTEMS. INSTALL IN STRICT ACCORDANCE WITH IAPMO UES REPORT NO. ER-240 INCLUDING STANDARD EMBEDMENT REQUIREMENTS U.O.N. PROPOSED SUBSTITUTIONS SHALL BE SUBMITTED FOR REVIEW WITH I.C.C. OR IAPMO UES REPORTS INDICATING EQUIVALENT OR GREATER LOAD CAPACITIES. SPECIAL INSPECTION IS REQUIRED FOR ALL EXPANSION BOLT INSTALLATION.

25. SCREW ANCHORS INTO GROUT FILLED CMU SHALL BE "TITEN HD", AS MANUFACTURED BY SIMPSON STRONG-TIE ANCHOR SYSTEMS. INSTALL IN STRICT ACCORDANCE WITH I.C.C. REPORT NO. ESR-1056 INCLUDING STANDARD EMBEDMENT REQUIREMENTS U.O.N. PROPOSED SUBSTITUTIONS SHALL BE SUBMITTED FOR REVIEW WITH I.C.C. OR IAPMO UES REPORTS INDICATING EQUIVALENT OR GREATER LOAD CAPACITIES. SPECIAL INSPECTION IS IS NOT REQUIRED FOR ALL SCREW ANCHOR INSTALLATION.

26. SCREW ANCHORS INTO CONCRETE SHALL BE "TITEN HD", AS MANUFACTURED BY SIMPSON STRONG-TIE ANCHOR SYSTEMS. INSTALL IN STRICT ACCORDANCE WITH I.C.C. REPORT NO. ESR-2713 INCLUDING STANDARD EMBEDMENT REQUIREMENTS U.O.N. PROPOSED SUBSTITUTIONS SHALL BE SUBMITTED FOR REVIEW WITH I.C.C. OR IAPMO UES REPORTS INDICATING EQUIVALENT OR GREATER LOAD CAPACITIES. SPECIAL INSPECTION IS REQUIRED FOR ALL SCREW ANCHOR INSTALLATION.

27. EPOXY-GROUTED ITEMS (THREADED RODS OR REINFORCING BAR) INTO CONCRETE SHALL BE INSTALLED USING "AT-XP" ADHESIVE AS MANUFACTURED BY SIMPSON STRONG-TIE ANCHOR SYSTEMS. INSTALL IN STRICT ACCORDANCE WITH IAPMO UES REPORT NO. ER-263, INCLUDING STANDARD EMBEDMENT REQUIREMENTS U.O.N. PROPOSED SUBSTITUTIONS SHALL BE SUBMITTED FOR REVIEW WITH I.C.C. OR IAPMO UES REPORTS INDICATING EQUIVALENT OR GREATER LOAD CAPACITIES. SPECIAL INSPECTION OF INSTALLATION IS REQUIRED. RODS SHALL BE ASTM A36 UNLESS OTHERWISE NOTED.

28. EPOXY-GROUTED ITEMS (THREADED RODS OR REINFORCING BAR) INTO GROUT FILLED CMU SHALL BE INSTALLED USING "ACRYLIC-TIE" (AT-XP) ADHESIVE AS MANUFACTURED BY SIMPSON STRONG-TIE ANCHOR SYSTEMS. INSTALL IN STRICT ACCORDANCE WITH IAPMO UES REPORT NO. ER-281, INCLUDING STANDARD EMBEDMENT REQUIREMENTS U.O.N. PROPOSED SUBSTITUTIONS SHALL BE SUBMITTED FOR REVIEW WITH I.C.C. OR IAPMO UES REPORTS INDICATING EQUIVALENT OR GREATER LOAD CAPACITIES. SPECIAL INSPECTION OF INSTALLATION IS REQUIRED. RODS SHALL BE ASTM A36 UNLESS OTHERWISE NOTED.

MASONRY

29. CONCRETE MASONRY UNIT WALLS SHALL BE CONSTRUCTED OF MEDIUM WEIGHT UNITS CONFORMING TO ASTM C90, LAID IN A RUNNING BOND. LINEAR SHRINKAGE SHALL NOT EXCEED 0.065%. MORTAR SHALL BE TYPE "S" IN ACCORDANCE WITH ASTM C270. GROUT SHALL CONFORM TO IBC REQUIREMENTS AND ATTAIN A MINIMUM COMPRESSIVE STRENGTH OF 2,000 PSI AT 28 DAYS, DESIGN F'm = 2,000 PSI. FULL STRESSES ARE REQUIRED. STRENGTH SHALL BE VERIFIED BY THE UNIT STRENGTH METHOD IN ACCORDANCE WITH TMS 602-13. INSPECTION SHALL INCLUDE VERIFICATION OF MASONRY UNIT TYPE, PROPORTIONS OF MORTAR AND GROUT, PLACEMENT OF UNITS AND REINFORCING, CONSOLIDATION/RECONSOLIDATION OF GROUT, FABRICATION OF PRISMS (IF REQUIRED), AND CONFORMANCE TO STRUCTURAL DRAWINGS. INSPECTOR SHALL REVIEW THREE UNITS AND GROUT OR TAKE THREE PRISM TESTS FOR EVERY 5,000 S.F. OF WALL OR PORTION THEREOF.

    STRENGTH REQUIREMENTS: MASONRY UNIT: 2000 PSI; GROUT: 2000 PSI; MORTAR: 2000 PSI

    CONTRACTOR MAY PROPOSE TO SUBSTITUTE STRENGTH VERIFICATION METHODS ONE OR TWO PROVIDING RESPONSIBILITY IS ACCEPTED FOR ANY ADDITIONAL COSTS OR SUBMITTALS TO DPD.

    UNLESS NOTED OTHERWISE, PROVIDE THE FOLLOWING REINFORCEMENT:

WALL THICKNESS	VERTICAL BARS	HORIZONTAL BARS
8" WALLS	#5 @ 48" O.C.	(2) #4 @ 48" O.C.

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NO.	REVISION – AS BUILT	DATE
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REVIEWED: _____ _____
PARK ENGINEER DATE

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QUANTUM CONSULTING ENGINEERS
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JOHN HENRY WIGGINS III — STATE OF WASHINGTON — 32981 — STRUCTURAL ENGINEER — PROFESSIONAL ENGINEER

Seattle Parks & Recreation

GAS WORKS PARK

Gas Works Park - Comfort Station & East Entry/ADA - 95% CD

GENERAL NOTES

DESIGNED JHW	DATE December 4, 2020
DRAWN TA	
CHECKED JHW	SHEET ____ OF ____
ORDINANCE NO. GW CS - 124590 - 2008 PLF; SDOT Sidewalk – 125207 - REET 1; East Entry/ADA – 125207 - REET I	
CONTRACT NO. 2055	**S1.0**
SCALE AS NOTED	

GENERAL STRUCTURAL NOTES

(The following apply unless shown otherwise on the plans)

IN ADDITION, PROVIDE (2) #5 ((2) #4 @ 6" AND 4" WALLS) VERT. AT EACH SIDE OF OPENINGS, AT WALL CORNERS AND INTERSECTIONS AND AT FREE ENDS OF WALLS AND (2) #4 HORIZ. AT ELEVATED FLOOR AND ROOF LEVELS, AT TOPS OF WALLS AND ABOVE AND BELOW ALL OPENINGS. ALL HORIZONTAL REINFORCEMENT SHALL BE PLACED IN BOND BEAMS. EXTEND REINFORCEMENT AROUND OPENINGS 2'-0" BEYOND FACE OF OPENING. IF 2'-0" IS UNAVAILABLE, EXTEND AS FAR AS POSSIBLE AND HOOK. PROVIDE CORNER BARS TO LAP HORIZONTAL REINFORCING AT CORNERS AND INTERSECTIONS. UNLESS NOTED OTHERWISE, LAP ALL REINFORCING STEEL IN CMU 48 BAR DIAMETERS, 2'-0" MINIMUM.

ALL CELLS ARE TO BE SOLID GROUTED UNLESS NOTED AS PARTIAL GROUTING. FOR PARTIAL GROUTING FILL ALL CELLS CONTAINING REINFORCEMENT OR EMBEDDED ITEMS AND ALL CELLS BELOW GRADE WITH GROUT. ALL REINFORCEMENT SHALL BE IN PLACE PRIOR TO GROUTING AND SHALL BE HELD AT TOP, BOTTOM AND 192 BAR DIAMETERS (MAX.) O.C. PER ACI 530.1, GROUT POURS SHALL NOT EXCEED 5'-4" IN HEIGHT UNLESS A TEST PANEL IS CONSTRUCTED BY THE MASON AND APPROVED BY THE STRUCTURAL ENGINEER. PROVIDE CLEANOUT HOLES AT BOTTOM OF ALL CELLS CONTAINING REINFORCEMENT FOR ALL GROUT POURS OVER 5'-4" IN HEIGHT. PROVIDE 1 1/2 IN. GROUT KEYS BETWEEN EACH POUR.

STEEL

30. STRUCTURAL STEEL DESIGN, FABRICATION, AND ERECTION SHALL BE BASED ON THE LATEST EDITIONS OF THE A.I.S.C. SPECIFICATIONS AND CODES:

    A. AISC – STEEL CONSTRUCTION MANUAL, 14TH EDITION
    B. CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES.
    C. SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS.

31. STRUCTURAL STEEL, WIDE FLANGE (W AND WT) SHAPES SHALL CONFORM TO ASTM A992, Fy = 50 KSI; ALL OTHER ROLLED SHAPES SHALL CONFORM TO ASTM A36, FY = 36 KSI. STEEL PLATE SHALL CONFORM TO ASTM A36, Fy = 36 KSI. STEEL PIPE SHALL CONFORM TO ASTM A53, TYPE E OR S, GRADE B, Fy = 35 KSI. STRUCTURAL TUBING SHALL CONFORM TO ASTM A500, GRADE B, Fy = 46 KSI. CONNECTION BOLTS SHALL CONFORM TO ASTM A307. ANCHOR BOLTS SHALL CONFORM TO ASTM F1554 GRADE 36, Fy = 36 KSI.

32. ARCHITECTURALLY EXPOSED STRUCTURAL STEEL SHALL CONFORM TO SECTION 10 OF THE AISC CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES.

33. ALL A-307 CONNECTION BOLTS SHALL BE PROVIDED WITH LOCK WASHERS UNDER NUTS OR SELF-LOCKING NUTS. ALL BOLT HOLES SHALL BE STANDARD SIZE UNLESS OTHERWISE NOTED.

34. ALL WELDING SHALL BE IN CONFORMANCE WITH A.I.S.C. AND A.W.S. STANDARDS AND SHALL BE PERFORMED BY W.A.B.O. CERTIFIED WELDERS USING E70 XX ELECTRODES. ONLY PREQUALIFIED WELDS (AS DEFINED BY A.W.S.) SHALL BE USED. WELDING OF GRADE 60 REINFORCING BARS (IF REQUIRED) SHALL BE PERFORMED USING LOW HYDROGEN ELECTRODES. WELDING OF GRADE 40 REINFORCING BARS (IF REQUIRED) SHALL BE PERFORMED USING E70XX ELECTRODES. WELDING WITHIN 4" OF COLD BENDS IN REINFORCING STEEL IS NOT PERMITTED. SEE REINFORCING NOTE FOR MATERIAL REQUIREMENTS OF WELDED BARS. ALL WELDING OF STAINLESS STEEL SHALL USE E309 ELECTRODES WITH A GMAW PROCESS. ALL WELDING SHALL BE PERFORMED BY WELDERS WITH AWS / W.A.B.O. CERTIFICATION WITH THE MATERIAL AND METHOD REQUIRED.

    SHOP DRAWINGS SHALL SHOW ALL WELDING WITH AWS A2.4 SYMBOLS. WELDS SHOWN ON DRAWINGS ARE MINIMUM SIZES. INCREASE WELDS SIZE TO AWS MINIMUM SIZES BASED ON PLATE THICKNESS. MINIMUM WELDING SHALL BE 3/16-INCH. THE WELDS SHOWN ARE FOR THE FINAL CONNECTIONS. FIELD WELD ARROWS ARE SHOWN WHERE A FIELD WELD IS REQUIRED BY THE STRUCTURAL DESIGN; THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING IF A WELD SHOULD BE SHOP OR FIELD WELDED IN ORDER TO FACILITATE THE STRUCTURAL STEEL DELIVERY AND ERECTION. SEE THE SPECIFICATIONS AND DRAWINGS FOR ADDITIONAL WELDING REQUIREMENTS, ESPECIALLY AT SPECIAL MOMENT RESISTING FRAMES AND OTHER SEISMIC CRITICAL WELDS.

35. METAL ROOF DECKING--PROVIDE SIZE, TYPE, GAUGE, AND ATTACHMENT TO THE SUPPORTING STRUCTURE AS SHOWN ON THE PLANS. ALTERNATES MUST BE CONNECTED ACCORDING TO PUBLISHED I.C.C. OR IAPMO UES CRITERIA FOR DIAPHRAGM SHEARS SHOWN. PROVIDE SHORING WHERE REQUIRED PER MANUFACTURER'S PUBLISHED CRITERIA. ALL DECKING SHALL CONFORM TO THE REQUIREMENTS OF THE STEEL DECK INSTITUTE.

STRUCTURAL OBSERVATION

AS NOTED IN IBC SECTION 1704.6, STRUCTURAL OBSERVATION IS REQUIRED FOR THIS PROJECT. STRUCTURAL OBSERVATION MEANS THE VISUAL OBSERVATION OF THE STRUCTURAL SYSTEM, INCLUDING BUT NOT LIMITED TO, THE ELEMENTS AND CONNECTIONS AT SIGNIFICANT CONSTRUCTION STAGES AND THE COMPLETED STRUCTURE FOR GENERAL CONFORMANCE TO THE APPROVED PLANS AND SPECIFICATIONS. STRUCTURAL OBSERVATION DOES NOT INCLUDE OR WAIVE THE RESPONSIBILITY OF THE INSPECTIONS REQUIRED BY IBC SECTIONS 110 AND 1704.

IN OUR STRUCTURAL OBSERVATION, WE WILL SELECT PORTIONS OF WORK TO REVIEW CLOSELY AS WELL AS OBSERVE THE STRUCTURAL SYSTEM FOR GENERAL CONFORMANCE TO THE APPROVED PLANS AND SPECIFICATIONS. SUCH REVIEW PROCEDURES WILL BE CONDUCTED IN ACCORDANCE WITH COMMONLY ACCEPTED STANDARDS OF PRACTICE. THE BUILDING OFFICIAL UNDERSTANDS THAT SUCH PROCEDURES INDICATE ACTUAL CONDITIONS ONLY WHERE THE REVIEW IS PERFORMED AND THAT THE RESULTS WILL BE INFERRED TO EXIST IN OTHER AREAS NOT REVIEWED.

THE BUILDING OFFICIAL ALSO RECOGNIZES THAT STRUCTURAL REVIEW IS A TECHNIQUE EMPLOYED TO MINIMIZE THE RISK OF PROBLEMS ARISING DURING CONSTRUCTION. STRUCTURAL OBSERVATION BY THE DESIGN PROFESSIONAL DOES NOT CONSTITUTE WARRANTY OR GUARANTEE OF ANY TYPE. IN ALL CASES, THE CONTRACTOR SHALL RETAIN RESPONSIBILITY FOR THE QUALITY OF WORK AND FOR ADHERENCE TO THE APPROVED PLANS AND SPECIFICATIONS.

ABBREVIATIONS

@	At
d	Penny (Nails)
ø	Diameter
A.B.	Anchor Bolt
ADD.	Addendum
ADD'L	Additional
ALT.	Alternate
APPROX.	Approximate
ARCH.	Architect
AVG.	Average
B.U.	Built-up
B/	Bottom of
BD.	Board
BET.	Between
BLK.	Block
BLKG.	Blocking
BLDG.	Building
BM.	Beam
BRG.	Bearing
?	Centerline
C	Camber
C TO C	Center to Center
CIP	Cast In Place
C.J.	Construction Joint or Control Joint
CLG.	Ceiling
CLR.	Clear
CMU	Concrete Masonry Unit
CNTR.	Center
COL.	Column
CONC.	Concrete
CONN.	Connections
CONST.	Construction
CONT.	Continuous
CONTR.	Contractor
COORD.	Coordinate
CP	Complete Penetration Weld
CSK.	Countersink
DBL.	Double
DEG.	Degree
DET.	Detail
DIA.	Diameter
DIAG.	Diagonal
DIAPH.	Diaphragm
DIM.	Dimension
DN.	Down
DO	Ditto
DWG.	Drawing
(E)	Existing
E.	East
EA.	Each
E.F.	Each Face
EL.	Elevation
ELEV.	Elevator
EMBED.	Embedment Length
ENGR.	Engineer
EQUIP.	Equipment
EST.	Estimate
ET. AL.	And Others
E.W.	Each Way
EXC.	Excavate
EXP.	Expansion
EXT.	Exterior
FAB.	Fabricate
F.B.	Flat Bar
FDN.	Foundation
FIN.	Finish
FLNG.	Flange
FLR.	Floor
F.S.	Far Side
FT.	Foot or Feet
FTG.	Footing
F.V.	Field Verify
GA.	Gauge
GALV.	Galvanized
GL	Glue Laminated
GRD.	Grade
GRND.	Ground
G.W.B.	Gypsum Wall Board
HGR.	Hanger
HORIZ.	Horizontal
HT.	Height
L	Angle
LIN.	Linear
LL	Live Load
LLH	Long Leg Horizontal
LLV	Long Leg Vertical
LONG.	Longitudinal
LT. WT.	Lightweight
MAN.	Manual
MATL.	Material
MAX.	Maximum
M.B.	Machine Bolt
MECH.	Mechanical
MET.	Metal
MEZZ	Mezzanine
MFR	Manufacturer
MIN.	Minimum
MISC.	Miscellaneous
MK.	Mark
N.	North
N.S.	Near Side
NEG.	Negative
NIC	Not in Contract
NO.	Number
NOM.	Nominal
NTS	Not to Scale
O.C.	On Center
O.D.	Outside Diameter
O.F.	Outside Face
O.H.	Opposite Hand
OPNG.	Opening
OPP.	Opposite
OVHD.	Overhead
PART.	Partition
PC	Precast
PERM.	Permanent
PERP.	Perpendicular
PL or ?	Plate
PLYWD	Plywood
PP	Partial Penetration
PREFAB.	Prefabricated
PROJ.	Project
PSF	Pound per Square Foot
PSI	Pound per Square Inch
PT	Post-Tensioning
RAD.	Radius
RD.	Round
REF.	Reference
REINF.	Reinforce or Reinforcement
REQD.	Required
RET.	Return
REV.	Revise
R.O.	Rough Opening
S.	South
SCH. or SCHED.	Schedule
SECT.	Section
SHT.	Sheet
SIM.	Similar
S.M.	Sheet Metal
SOG	Slab On Grade
SPEC.	Specification
SQ.	Square
SQ. FT.	Square Feet
SQ. IN.	Square Inch (inches)
STD.	Standard
STIFF.	Stiffener
STL.	Steel
STMTS	Self Tapping Sheet Metal Screw
STR.	Structural
SUB.	Substitute
SYM.	Symmetrical
T/	Top of
T&B	Top and Bottom
T&G	Tongue & Groove
TAN.	Tangent
TECH.	Technical
THRU	Through
T.O.C.	Top of Concrete
T.O.S.	Top of Steel
T.O.W.	Top of Wall
TS	Tube Steel
TYP.	Typical

ABBREVIATIONS (CONT.)

	UON or UNO — Unless Otherwise Noted
I.D.	Inside Diameter
I.F.	Inside Face
IN.	Inch
INFO.	Information
INT.	Interior
JT.	Joint
K.O.	Knock Out
KSF	Kips per Square Foot
KSI	Kips per Square Inch
VERT.	Vertical
W.	West
W/ or w/	With
WD	Wood
WHS	Welded Headed Studs
W/O	Without
WP	Work Point
WTS	Welded Threaded Studs
WWF	Welded Wire Fabric
X SECT.	Cross Section
X-STR	Extra Strong

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3		
2		
1		

REVIEWED: _____ _____
PARK ENGINEER DATE

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TEL 206.957.3900
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JOHN HENRY WIGGINS III — STATE OF WASHINGTON — 32983 — STRUCTURAL ENGINEER — PROFESSIONAL ENGINEER

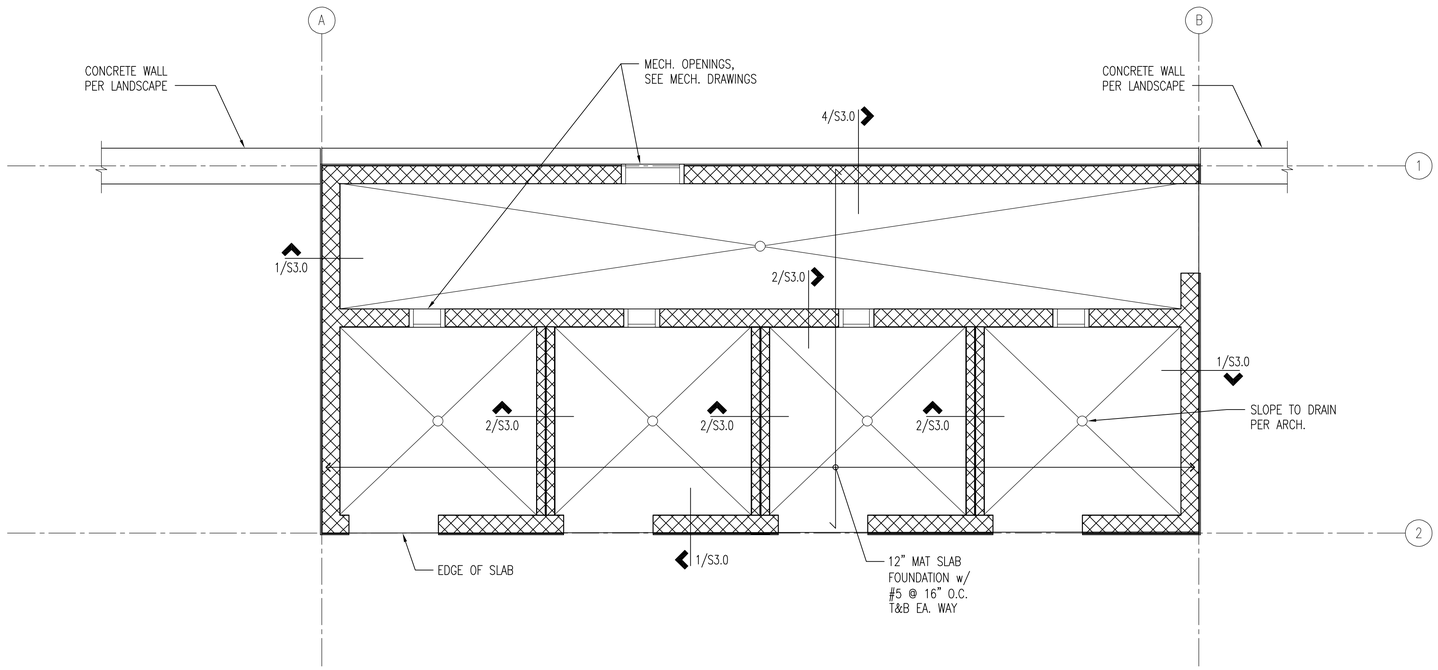
Seattle Parks & Recreation

GAS WORKS PARK

Gas Works Park - Comfort Station & East Entry/ADA - 95% CD

GENERAL NOTES

DESIGNED JHW	DATE December 4, 2020
DRAWN TA	
CHECKED JHW	SHEET ____ OF ____
ORDINANCE NO. GW CS - 124590 - 2008 PLF; SDOT Sidewalk – 125207 – REET 1; East Entry/ADA – 125207 - REET I	
CONTRACT NO. 2055	**S1.1**
SCALE AS NOTED	



FOUNDATION PLAN

SCALE: 3/8" = 1'-0"

3/8"=1'-0" 2 0 2 4 6 Scale Feet

FOUNDATION NOTES:

1. ALL DIMENSIONS AND ELEVATIONS ON THE STRUCTURAL PLANS ARE FOR GENERAL INFORMATION ONLY AND SHALL BE VERIFIED BY THE CONTRACTOR WITH THE ARCHITECTURAL DRAWINGS BEFORE CONSTRUCTION BEGINS. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND ENGINEER IMMEDIATELY.
2. SEE SHEETS S1.0 AND S1.1 FOR GENERAL STRUCTURAL NOTES AND ABBREVIATIONS. SEE SHEET S3.0 FOR TYPICAL CONCRETE, MASONRY AND FOUNDATION DETAILS.
3. SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION REGARDING SLAB SUB-GRADE MOISTURE BARRIER AND ELEVATIONS, ETC.

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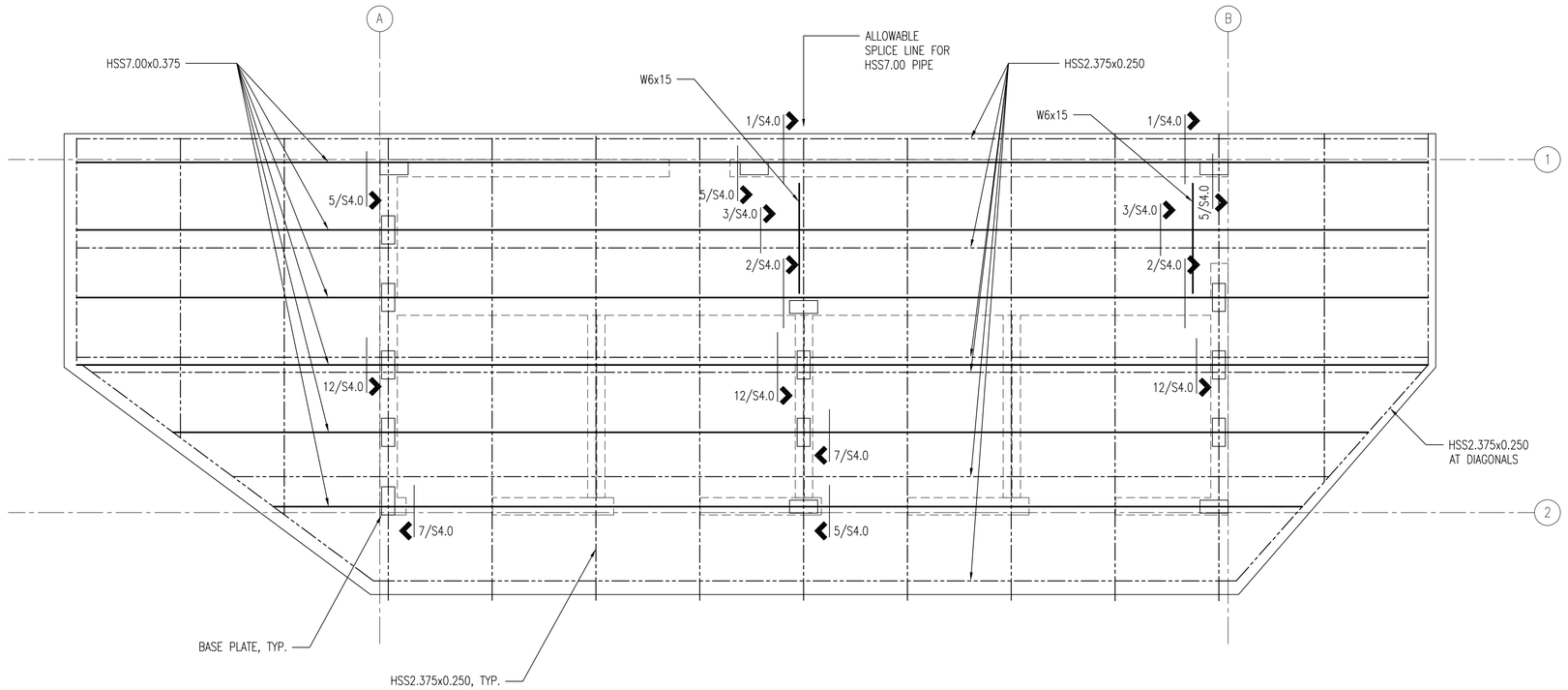
FOUNDATION PLAN

DESIGNED	JHW	DATE	December 4, 2020
DRAWN	TA		
CHECKED	JHW	SHEET	____ OF ____
ORDINANCE NO.	GW CS - 124590 - 2008 PLF SDOT Sidewalk – 125207 – REET 1 East Entry/ADA – 125207 - REET I		
CONTRACT NO.	2055		**S2.0**
SCALE	AS NOTED		



ROOF FRAMING PLAN

SCALE: 3/8" = 1'-0"

3/8"=1'-0"

2 0 2 4 6

Scale Feet

ROOF FRAMING NOTES:

1. ALL DIMENSIONS AND ELEVATIONS ON THE STRUCTURAL PLANS ARE FOR GENERAL INFORMATION ONLY AND SHALL BE VERIFIED BY THE CONTRACTOR WITH THE ARCHITECTURAL DRAWINGS BEFORE CONSTRUCTION BEGINS. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND ENGINEER IMMEDIATELY.
2. SEE SHEETS S1.0 AND S1.1 FOR GENERAL STRUCTURAL NOTES AND ABBREVIATIONS. SEE SHEET S4.0 FOR ROOF FRAMING DETAILS.
3. ROOF SHEATHING TO BE 24 GAUGE NU-WAVE 7/8" CORRUGATED SHEETS, BY AEP SPAN.

LEGEND:

ⱦ=ⱦ INDICATES CMU WALL BELOW

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ROOF FRAMING PLAN

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DRAWN	TA		
CHECKED	JHW	SHEET	____ OF ____

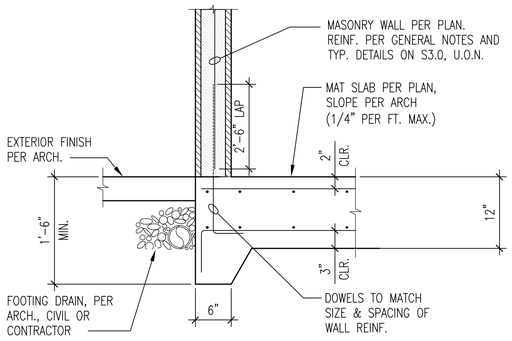
ORDINANCE NO.
GW CS - 124590 - 2008 PLF
SDOT Sidewalk – 125207 – REET 1
East Entry/ADA – 125207 - REET I

CONTRACT NO. 2055

SCALE AS NOTED

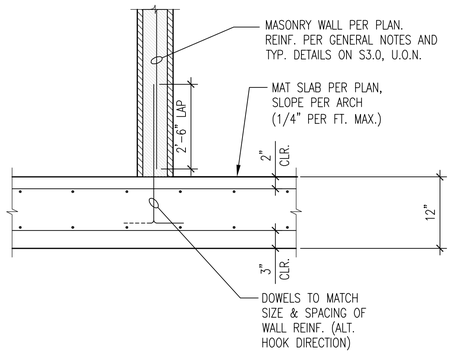
S2.1

NOTE:
FOR INFORMATION NOT SHOWN, SEE 4/S3.0



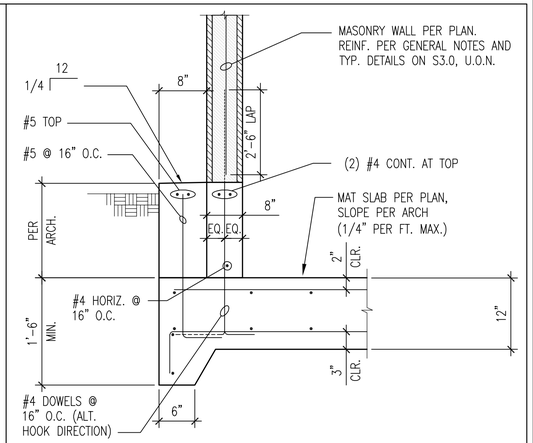
TYPICAL MAT SLAB FOUNDATION – EXTERIOR SCALE: NONE 1

NOTE:
FOR INFORMATION NOT SHOWN, SEE 4/S3.0

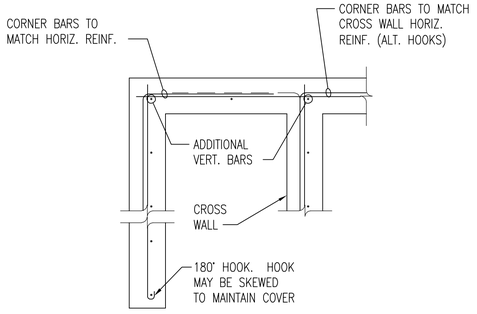


TYPICAL MAT SLAB FOUNDATION – INTERIOR SCALE: NONE 2

DETAIL SCALE: NONE 2



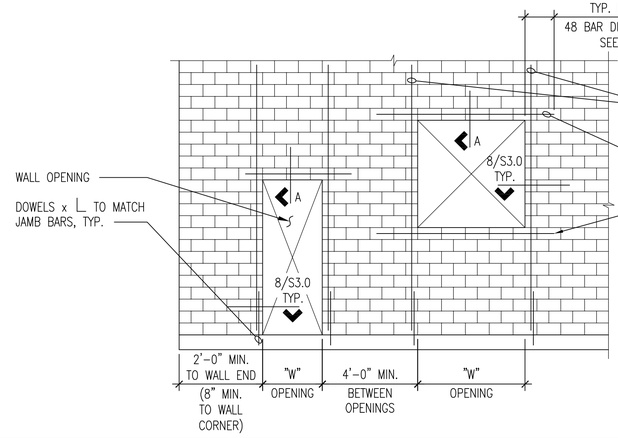
DETAIL SCALE: NONE 4



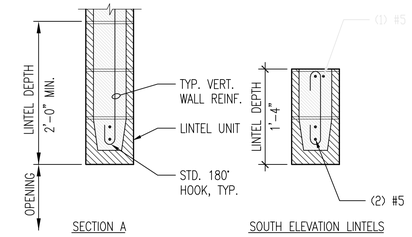
SINGLE CURTAIN

PLAN VIEW

TYPICAL CORNER BAR AND WALL END BAR ARRANGEMENT AT CONCRETE WALLS OR FOOTINGS SCALE: NONE 5



NOTES:
1. REINFORCEMENT SHOWN IN THIS DETAIL 1S IN ADDITION TO THE TYPICAL VERTICAL AND HORIZONTAL WALL REINFORCEMENT.
2. JAMB BARS SHALL BE THE SAME SIZE AS TYPICAL VERTICAL REINFORCEMENT, UNLESS OTHERWISE NOTED.
3. OPENINGS LESS THAN 8"x16" DO NOT REQUIRE ADDITIONAL REINFORCEMENT.
4. WHEN 48 BAR DIA. OR 2'-0" MIN. CAN NOT BE OBTAINED, EXTEND REINFORCEMENT AS FAR AS POSSIBLE AND PROVIDE STANDARD 90° HOOK (DOWN).



SECTION A

SOUTH ELEVATION LINTELS

LINTEL REINFORCING SCHEDULE	
OPENING "W"	LINTEL REINF.
LESS THAN 6'-0"	(2) #5
6'-0" TO LESS THAN 10'-0"	(2) #6

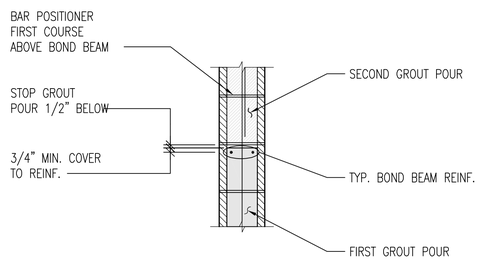
TYPICAL REINFORCEMENT AROUND OPENINGS IN MASONRY WALLS SCALE: NONE 8

MASONRY REINFORCING SPLICE AND DEVELOPMENT LENGTH SCHEDULE

DEVELOPMENT & SPLICING OF REINFORCING IN GROUTED MASONRY CONST. FOR GR. 40 & GR. 60 REBAR

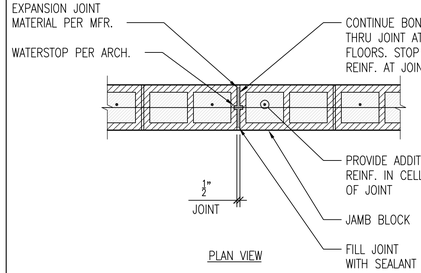
BAR SIZE	TENSION LAP SPLICE ("Lb") 48db	SEISMIC LAP SPLICE 60db
# 4	24"	30"
# 5	30"	38"

MASONRY REINFORCING SPLICE LENGTH SCHEDULE SCALE: NONE 9



NOTES:
1. SEE GENERAL NOTES FOR GROUT LIFT REQUIREMENTS.
2. CLEANOUTS ARE REQUIRED FOR ALL GROUT POURS OVER 5' IN HEIGHT.

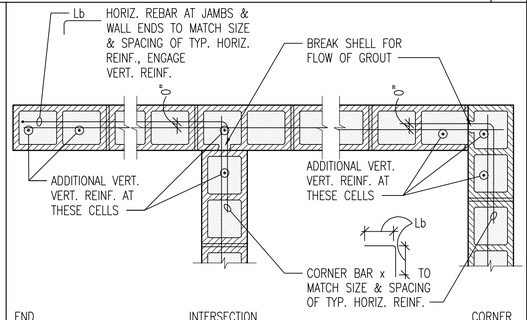
TYPICAL HORIZONTAL CONSTRUCTION JOINT IN MASONRY WALL SCALE: NONE 10



PLAN VIEW

NOTES:
1. PROVIDE JOINT FULL HEIGHT OF WALL WHERE INDICATED ON ARCH. DRAWINGS (40'-0" MAX. SPACING).
2. JOINTS SHALL BE LOCATED A MINIMUM OF 2'-0" FROM ANY OPENINGS.

TYPICAL VERTICAL JOINT IN MASONRY WALL SCALE: NONE 11



END INTERSECTION CORNER

NOTES:
1. PLACE VERTICAL REINFORCING AT CENTER OF WALL U.O.N.
2. USE DOUBLE OPEN END BOND BEAM UNITS, SINGLE OPEN END UNITS AT CORNERS & ENDS OF WALL.
3. WHERE BOND BEAM IN ADJACENT WALLS OCCUR AT DIFFERENT LEVELS, RETURN ONE OF THE BEAMS 2'-0" AROUND CORNER

TYPICAL MASONRY WALL ENDS, INTERSECTIONS & CORNERS SCALE: NONE 12

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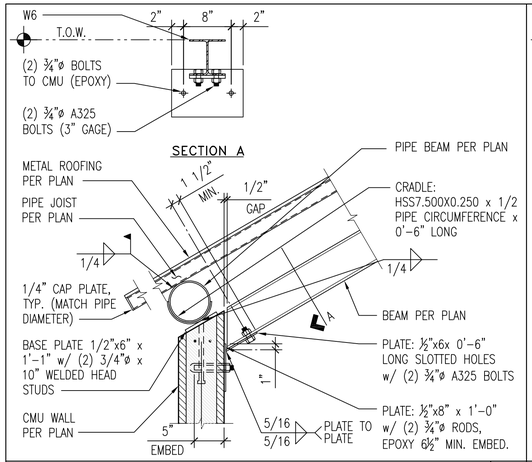
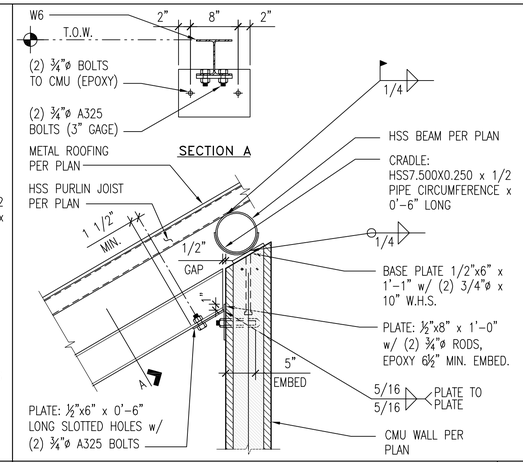
DETAILS

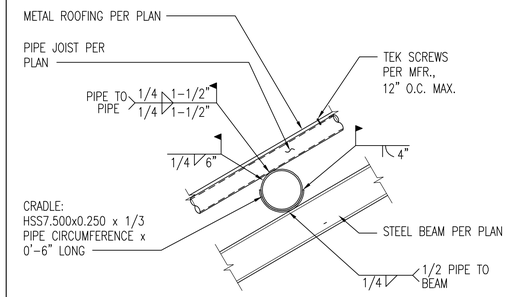
DESIGNED	JHW	DATE	December 4, 2020
DRAWN	TA		
CHECKED	JHW	SHEET	____ OF ____
ORDINANCE NO.	GW CS - 124590 - 2008 PLF SDOT Sidewalk – 125207 – REET 1 East Entry/ADA – 125207 - REET I		
CONTRACT NO.	2055		S3.0
SCALE	AS NOTED		



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

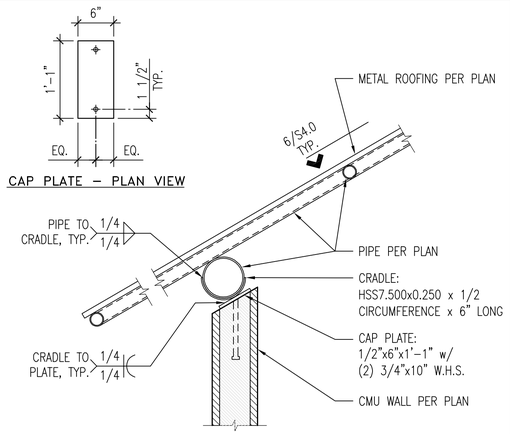


DETAIL SCALE: 1"=1'-0" 2

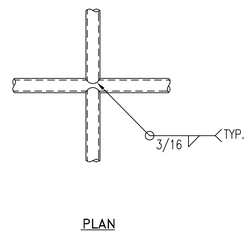


TYPICAL ROOF BEAM TO STEEL BEAM SCALE: NONE 3

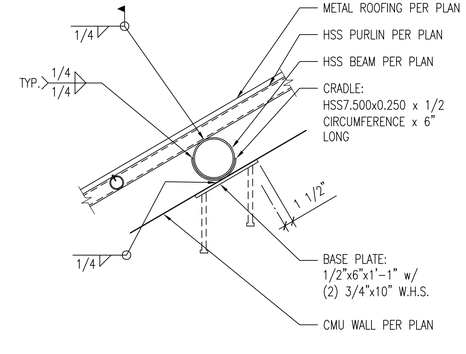
DETAIL SCALE: NONE 4



DETAIL SCALE: 1"=1'-0" 5



DETAIL SCALE: 1"=1'-0" 6

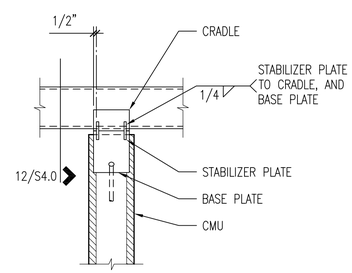


DETAIL SCALE: 1"=1'-0" 7

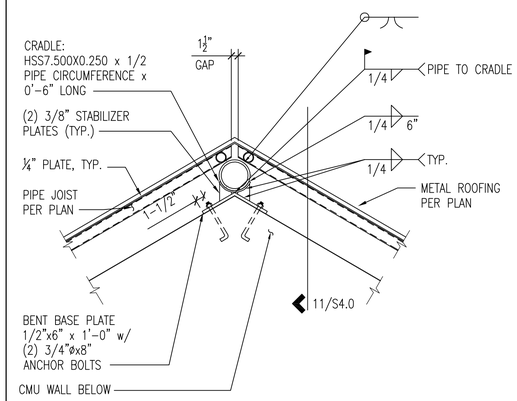
TYPICAL PIPE TO WALL SCALE: 1"=1'-0" 8

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

DETAIL SCALE: 1"=1'-0" 10



DETAIL SCALE: 1"=1'-0" 11



RIDGE BEAM TO WALL SCALE: 3/4"=1'-0" 12

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NO.	REVISION – AS BUILT	DATE
3		
2		
1		

REVIEWED: _____ PARK ENGINEER _____ DATE

All work done in accordance with the City of Seattle Standard Plans and Specifications in effect on the date shown above, and supplemented by Special Provisions.

QUANTUM CONSULTING ENGINEERS
1511 THIRD AVENUE
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www.quantumce.com

JOHN HENRY WIGGINS III STATE OF WASHINGTON 32981 REGISTERED PROFESSIONAL ENGINEER

Seattle Parks & Recreation

GAS WORKS PARK

Gas Works Park - Comfort Station & East Entry/ADA - 95% CD

DETAILS

DESIGNED	JHW	DATE	December 4, 2020
DRAWN	TA		
CHECKED	JHW	SHEET	____ OF ____

ORDINANCE NO.
GW CS - 124590 - 2008 PLF
SDOT Sidewalk – 125207 – REET 1
East Entry/ADA – 125207 - REET I

CONTRACT NO. 2055

SCALE AS NOTED

S4.0

MECHANICAL LEGEND

GENERAL

SYMBOL	DESCRIPTION
	HEAVY LINE INDICATES NEW WORK
	LIGHT LINE INDICATES EXISTING WORK OR BACKGROUND
℄	CENTERLINE
	PIPELINE – NORMAL DIRECTION OF FLOW
1	KEY NOTE CALLOUT
1	REVISION CALLOUT
	POINT OF CONNECTION
EF-1	EQUIPMENT CALLOUT, SEE SCHEDULE
CD2-300	DIFFUSER OR GRILLE CALLOUT, SEE SCHEDULE
	VOLUME FLOW RATE (CFM), NONE INDICATED FOR TRANSFER GRILLE
	DIFFUSER OR GRILLE TYPE
ø	INDICATES DIAMETER OR ROUND
1 / M-2	DETAIL CALLOUT:
	INDICATES DETAIL NUMBER
	SHEET NUMBER WHERE DETAIL IS DRAWN
	SECTION CALLOUT:
A / M-2	INDICATES DIRECTION OF CUTTING PLANE
	INDICATES SECTION LETTER
	SHEET NUMBER WHERE SECTION IS DRAWN

VENTILATION

DOUBLE	SINGLE	DESCRIPTION
24x12		DUCT: 1ST SIZE (IN) INDICATES SIDE SHOWN, 2ND SIZE (IN) INDICATES SIDE NOT SHOWN, INSIDE FREE AREA
		EXHAUST AIR DUCT – TURNING UP OR TOWARD
		EXHAUST AIR DUCT – TURNING DOWN OR AWAY
		ROUND DUCT – TURNING UP OR TOWARD
		ROUND DUCT – TURNING DOWN OR AWAY
		TRANSITION
		TRANSITION – ROUND TO RECTANGULAR

VENTILATION (CONT)

DOUBLE	SINGLE	DESCRIPTION
		90° ELBOW (RADIUS = 1.5 x ELBOW DIAMETER)
		RECTANGULAR BRANCH CONNECTION WITH 45° TAPER
		CONICAL BRANCH CONNECTION
		45° LATERAL FITTING
		45° LATERAL FITTING WITH 45° ELBOW
		90° CONICAL TEE FITTING
		BELLMOUTH BRANCH CONNECTION
		90° DIVERGING TEE
		AUTOMATIC CONTROL DAMPER – OPPOSED BLADE (PROVIDE ACCESS)
		VOLUME DAMPER
BDD	BDD	BACKDRAFT DAMPER
R/D	R/D	INDICATES RISE OR DROP
		FLEXIBLE DUCTWORK
		FLEXIBLE CONNECTOR
		SUPPLY GRILLE (SIDEWALL)
		RETURN/EXHAUST GRILLE (SIDEWALL)

SYMBOL	DESCRIPTION
	RETURN/EXHAUST GRILLE

EQUIPMENT

SYMBOL	DESCRIPTION
S_T	TIMER SWITCH

GENERAL NOTES

1. THE MECHANICAL SYSTEM SHALL CONSIST OF ALL WORK SHOWN ON DRAWINGS, DIAGRAMS, AND AS DESCRIBED IN SPECIFICATIONS.
2. INSTALL ALL MECHANICAL WORK AS HIGH AS POSSIBLE, TIGHT TO STRUCTURE ABOVE.
3. THE MECHANICAL PLANS ARE DIAGRAMMATIC IN NATURE AND DO NOT ATTEMPT TO SHOW ALL REQUIRED OFFSETS. REFER TO ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR CONSTRUCTION DETAILS.
4. ITEMS NOTED "TYPICAL" OR "TYP" ON ANY SHEET APPLY TO THAT PARTICULAR SHEET.
5. COORDINATE WITH SPECIFICATIONS. IN CASE OF CONFLICT BETWEEN SPECIFICATIONS AND DRAWINGS THE MORE STRINGENT SHALL APPLY.
6. PROVIDE NEC CODE MINIMUM HORIZONTAL AND VERTICAL WORKING CLEARANCES FOR ALL ELECTRICAL PANELS AND EQUIPMENT. OFFSET MECHANICAL WORK AS REQUIRED.
7. COORDINATE ALL MECHANICAL WORK WITH THAT OF OTHER TRADES TO INSURE PROPER AND ADEQUATE INTERFACE OF THEIR WORK WITH THE WORK OF THIS CONTRACTOR. PROVIDE COORDINATED SHOP DRAWINGS PRIOR TO FABRICATION AND INSTALLATION.
8. VERIFY CONDITIONS BEFORE COMMENCING ANY WORK ON THE MECHANICAL SYSTEM.
9. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS AND ELEVATIONS FOR EXACT LOCATION OF ALL GRILLES.
10. PROVIDE TRANSITIONS AS REQUIRED TO CONNECT DUCTWORK TO FANS AND OTHER MECHANICAL EQUIPMENT.
11. PROVIDE A VOLUME DAMPER FOR EACH EXHAUST OPENING IN BRANCHES AND ELSEWHERE AS NOTED ON THE DRAWINGS OR SPECIFICATIONS.

2015 WSEC COMPLIANCE

1. FAN SYSTEM MOTOR SIZE SHALL NOT EXCEED LIMITS OF SEC SECTION C403.2.10.
2. MOTORIZED DAMPERS SHALL BE RATED CLASS I AND SHALL HAVE A MAXIMUM LEAKAGE RATE OF 4 CFM/SF AT 1.0 INCH W.G.
3. PROVIDE BALANCING DEVICES IN ALL BRANCH DUCTS TO TERMINAL DEVICES AS REQUIRED BY SECTION C408.2.2 OF THE SEC AND AS INDICATED ON THE CONTRACT DOCUMENTS. EACH EXHAUST AIR GRILLE SHALL BE EQUIPPED WITH MEANS FOR AIR BALANCING IN ACCORDANCE WITH THE REQUIREMENTS OF CHAPTER 6 OF THE IMC.
4. ALL DUCTWORK SHALL COMPLY WITH SMACNA STANDARDS FOR CONSTRUCTION OF GALVANIZED DUCTWORK. ALL DUCTWORK ON THIS PROJECT SHALL BE RATED AS LOW PRESSURE. ALL DUCTWORK SHALL BE SEALED AS REQUIRED BY SECTION C403.2.7.3 OF THE SEC
5. MINIMUM MOTOR EFFICIENCY FOR FRACTIONAL HORSEPOWER MOTORS SHALL MEET THE REQUIREMENTS OF WSEC SECTION C403.2.10.3.
6. COMPLY WITH ALL COMPLETION REQUIREMENTS OF SECTION C408 OF THE WSEC. REFER TO SPECIFICATIONS.

ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR	IN	INCH
ARCH	ARCHITECTURAL	KW	KILOWATT
BDD	BACKDRAFT DAMPER	LBS	POUNDS
CFM	CUBIC FEET PER MINUTE	MAX	MAXIMUM
CO	CLEANOUT	MCA	MINIMUM CURRENT AMPACITY
CONT	CONTINUATION	MECH	MECHANICAL
CW	COLD WATER	MFR	MANUFACTURER
DEG	DEGREE	MIN	MINIMUM
DIA	DIAMETER	MOD	MOTOR OPERATED DAMPER
DN	DOWN	OA	OUTSIDE AIR
EF	EXHAUST FAN	POC	POINT OF CONNECTION
ESP	EXTERNAL STATIC PRESSURE	RPM	REVOLUTIONS PER MINUTE
EXIST (E)	EXISTING	SEC	SEATTLE ENERGY CODE
F	FAHRENHEIT	SF	SUPPLY FAN/SQUARE FEET
FD	FLOOR DRAIN	SPEC	SPECIFICATION
FLA	FULL LOAD AMPACITY	TSP	TOTAL STATIC PRESSURE
FPM	FEET PER MINUTE	TYP	TYPICAL
FT	FEET/FOOT	V	VENT
GPM	GALLONS PER MINUTE	VTR	VENT THROUGH ROOF
HW	HOT WATER	W	WASTE/WATT
IE	INVERT ELEVATION	WG	WATER GAGE

APPLICABLE CODES

PROJECT SHALL COMPLY WITH THE FOLLOWING BUILDING CODES WITH LOCAL AND WASHINGTON STATE AMENDMENTS:

1. 2015 SEATTLE BUILDING CODE
2. 2015 SEATTLE MECHANICAL CODE
3. 2015 SEATTLE ENERGY CODE

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NO.	REVISION – AS BUILT	DATE
3		
2		
1		

REVIEWED: _____ PARK ENGINEER _____ DATE

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Rainbow Consulting LLC
Mechanical Engineering
336 NW 50th St, Seattle, WA 98107
206.235.6002, steven@rainbowconsulting-me.com

STEVEN P. RAINBOW STATE OF WASHINGTON 35615 REGISTERED PROFESSIONAL ENGINEER
12/04/2020

Seattle Parks & Recreation

GAS WORKS PARK

Gas Works Park - Comfort Station & East Entry/ADA - 95% CD

Mechanical Legend, Notes, Abbreviations

DESIGNED S. RAINBOW
DRAWN S. RAINBOW
CHECKED _____
DATE December 4, 2020
SHEET ____ OF ____

ORDINANCE NO.
GW CS – 124590-2008 PLF
SDOT Sidewalk – 125207-REET1
East Entry/ADA – 125207-REET1
CONTRACT NO. 2055
SCALE AS NOTED

M0.1

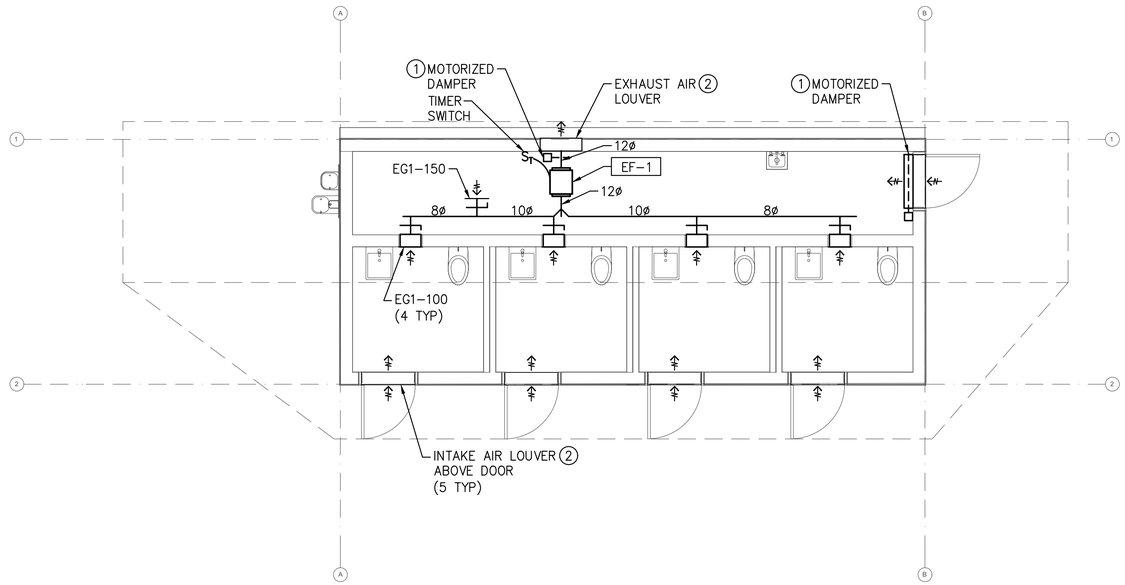
PLAN NOTES:

1. ALL DUCTWORK SHALL BE GALVANIZED SHEET METAL UNLESS OTHERWISE NOTED AND INSTALLED IN ACCORDANCE WITH SMACNA REQUIREMENTS. REFER TO DUCT HANGER DETAIL ON THIS SHEET. ALL DUCTWORK SHALL BE LOW PRESSURE CONSTRUCTION.
2. FLEXIBLE CONNECTORS: PROVIDE UL LISTED 181 FLEXIBLE CONNECTORS PER SEATTLE MECHANICAL CODE SECTION 603.2.1.
3. COORDINATE LOCATION OF SWITCH WITH ARCHITECT PRIOR TO INSTALLATION.
4. MAINTAIN ALL EQUIPMENT AND DUCTS AS TIGHT AS POSSIBLE TO STRUCTURE ABOVE.

KEY NOTES:

(1) PROVIDE CLASS 1A LOW LEAKAGE MOTORIZED CONTROL DAMPER WITH MINIMUM PERFORMANCE: 4 CFM/SF OF DAMPER AREA AT 1.0" WG.: GREENHECK VCD-23 OR APPROVED EQUAL.

(2) LOUVER SPECIFIED BY ARCHITECT AND INSTALLED BY GENERAL CONTRACTOR.



1 MECHANICAL PLAN
SCALE: 1/4" = 1'

1/4"=1'-0" 2 0 2 4 6 8 10 Scale Feet

EXHAUST FANS

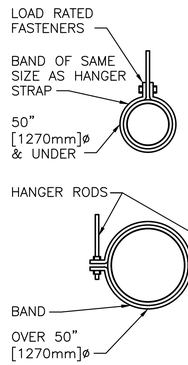
MARK		EF-1	
LOCATION		CHASE	
SERVES		RESTROOMS/JANITOR	
TYPE	DESCRIPTION	IN-LINE	
	DRIVE	EC MOTOR	
CAPACITY	FLOW: CFM	550	
	TSP: IN WG	0.375	
	FAN SPEED: RPM	1515	
	MOTOR: HP	1/6	
	VOLT/PHASE	115/1	
OPER WEIGHT	WEIGHT: LBS	50	
BASIS OF DESIGN	MANUFACTURER	GREENHECK	
	MODEL	SQ-95-VG	
REMARKS	NOTES	[1, 2, 3]	

NOTES
1. ELECTRICAL CONTRACTOR SHALL PROVIDE DISCONNECT AS REQUIRED.
2. FOR INSTALLATION, SEE DETAIL A ON THIS SHEET.
3. FAN TO OPERATE FROM A TIMER SWITCH WITH MANUAL OVERRIDE. WHEN FAN IS ON, EXHAUST AND INTAKE AIR DAMPERS SHALL BE OPEN; WHEN FAN IS OFF, DAMPERS SHALL BE CLOSED.

GRILLES

MARK		EG1	
ITEM	SERVICE	EXHAUST	
	LOCATION	EXPOSED	
TYPE	DESCRIPTION	LOUVERED GRILLE	
	MATERIAL	ALUMINUM	
	FACE SIZE: IN	14 x 6	
	BORDER TYPE	–	
CAPACITY	DUCT SIZE: IN	SEE PLANS	
	NECK SIZE: IN	14 x 6	
	MAX NC: [2]	25	
COMPONENTS	EQUALIZING GRID	–	
	OB DAMPER	YES	
	PLENUM	–	
BASIS OF DESIGN	MANUFACTURER	TITUS	
	MODEL	355FL	
REMARKS	NOTES	–	

NOTES:
1. PROVIDE DUCT CONNECTION SIZE EQUAL TO NECK SIZE UNLESS NOTED ON PLANS.



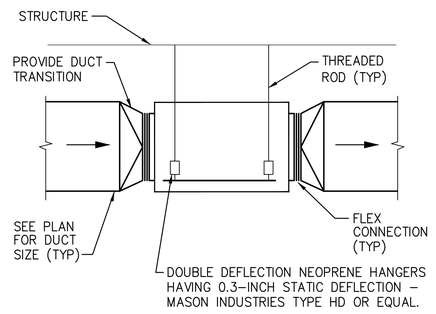
HANGER STRAPS OR RODS

MAX. DUCT ø IN. [mm]	QUANTITY/SIZE IN. [mm]	MAX. LOAD LBS. [kg]	MAX. SPACING IN. [mm]
26 [650]	ONE 1 [25] x 22 GA STRAP	260 [119]	144 [3658]
36 [900]	ONE 1 [25] x 18 GA STRAP	420 [190]	144 [3658]
50 [1250]	ONE 1 [25] x 16 GA STRAP	700 [317]	144 [3658]
60 [1500]	TWO 3/8 [10]ø. RODS	1320 [598]	144 [3658]
84 [2100]	TWO 1/2 [13]ø RODS	2500 [1133]	144 [3658]

NOTE:
TABULATED DATA FROM SMACNA ALLOWS FOR DUCT REINFORCING AND INSULATION, BUT NO EXTERNAL LOAD.

PROVIDE SEISMIC BRACING PER SMACNA REQUIREMENTS.

ROUND DUCT HANGERS
SCALE: NONE
B



IN-LINE FAN
SCALE: NONE
A

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12/04/2020

Seattle Parks & Recreation

GAS WORKS PARK

Gas Works Park - Comfort Station & East Entry/ADA - 95% CD

Mechanical Plan, Schedules, Details

DESIGNED S. RAINBOW
DRAWN S. RAINBOW
CHECKED
DATE December 4, 2020
SHEET X OF X

ORDINANCE NO.
GW CS – 124590-2008 PLF
SDOT Sidewalk – 125207-REET1
East Entry/ADA – 125207-REET1
CONTRACT NO. 2055

SCALE AS NOTED

M1.1

LEGEND

GENERAL

SYMBOL	DESCRIPTION
	HEAVY LINE INDICATES NEW WORK
	LIGHT LINE INDICATES EXISTING WORK OR BACKGROUND
℄	CENTERLINE
	PIPELINE – NORMAL DIRECTION OF FLOW
1	KEY NOTE CALLOUT
1	REVISION CALLOUT
P1	PLUMBING FIXTURE OR DRAIN CALLOUT, SEE SCHEDULE
	POINT OF CONNECTION
ø	INDICATES DIAMETER OR ROUND
1 / M-2	DETAIL CALLOUT: INDICATES DETAIL NUMBER SHEET NUMBER WHERE DETAIL IS DRAWN
A / M-2	SECTION CALLOUT: INDICATES DIRECTION OF CUTTING PLANE INDICATES SECTION LETTER SHEET NUMBER WHERE SECTION IS DRAWN

PLUMBING AND PIPING

SYMBOL	DESCRIPTION
	COLD WATER
	HOT WATER
THW	TEMPERED HOT WATER
	SOIL OR WASTE – ABOVE GROUND
	SOIL OR WASTE – BELOW GROUND
	VENT
	PIPE TURNING UP OR TOWARD
	PIPE TURNING DOWN OR AWAY
	FLOOR DRAIN
	GATE VALVE
	GLOBE VALVE
	CHECK VALVE
	BALL VALVE
	PRESSURE REGULATING VALVE
	UNION
	VENT THROUGH ROOF
	WALL HYDRANT/HOSE BIBB
	BACKFLOW PREVENTER

ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR
ARCH	ARCHITECTURAL
CO	CLEANOUT
CONT	CONTINUATION
CW	COLD WATER
DEG	DEGREE
DIA	DIAMETER
DN	DOWN
EXIST (E)	EXISTING
F	FAHRENHEIT
FD	FLOOR DRAIN
FLA	FULL LOAD AMPACITY
FPM	FEET PER MINUTE
FT	FEET/FOOT
GPM	GALLONS PER MINUTE
HW	HOT WATER
IE	INVERT ELEVATION
IN	INCH
KW	KILOWATT
LBS	POUNDS
MAX	MAXIMUM
MCA	MINIMUM CURRENT AMPACITY
MECH	MECHANICAL
MFR	MANUFACTURER
MIN	MINIMUM
POC	POINT OF CONNECTION
RPM	REVOLUTIONS PER MINUTE
SF	SQUARE FEET
SPEC	SPECIFICATION
TSP	TOTAL STATIC PRESSURE
TYP	TYPICAL
V	VENT
VTR	VENT THROUGH ROOF
W	WASTE/WATT
WG	WATER GAGE

APPLICABLE CODES

PROJECT SHALL COMPLY WITH THE FOLLOWING BUILDING CODES WITH LOCAL AND LOCAL AMENDMENTS:

1. 2015 SEATTLE BUILDING CODE
2. 2015 SEATTLE PLUMBING CODE
3. 2015 SEATTLE ENERGY CODE

2015 SEC COMPLIANCE

1. IN COMPLIANCE WITH SEC C103.6, PROVIDE THE FOLLOWING TO THE OWNER: 1) REDLINED PLUMBING PLANS, 2) A COMPLETE SET OF OPERATIONS AND MAINTENANCE MATERIALS FOR ALL PLUMBING EQUIPMENT, AND 3) SYSTEMS OPERATION TRAINING.

GENERAL NOTES

1. THE PLUMBING SYSTEM SHALL CONSIST OF ALL WORK SHOWN ON DRAWINGS, DIAGRAMS, AND AS DESCRIBED IN SPECIFICATIONS.
2. INSTALL ALL PLUMBING WORK AS HIGH AS POSSIBLE, TIGHT TO STRUCTURE ABOVE.
3. THE PLUMBING PLANS ARE DIAGRAMMATIC IN NATURE AND DO NOT ATTEMPT TO SHOW ALL REQUIRED OFFSETS. REFER TO ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR CONSTRUCTION DETAILS.
4. ITEMS NOTED "TYPICAL" OR "TYP" ON ANY SHEET APPLY TO THAT PARTICULAR SHEET.
5. COORDINATE WITH SPECIFICATIONS. IN CASE OF CONFLICT BETWEEN SPECIFICATIONS AND DRAWINGS THE MORE STRINGENT SHALL APPLY.
6. PROVIDE NEC CODE MINIMUM HORIZONTAL AND VERTICAL WORKING CLEARANCES FOR ALL ELECTRICAL PANELS AND EQUIPMENT. OFFSET PLUMBING WORK AS REQUIRED.
7. COORDINATE ALL PLUMBING WORK WITH THAT OF OTHER TRADES TO ENSURE PROPER AND ADEQUATE INTERFACE OF THEIR WORK WITH THE WORK OF THIS CONTRACTOR. PROVIDE COORDINATED SHOP DRAWINGS PRIOR TO FABRICATION AND INSTALLATION.
8. COORDINATE EXACT LOCATION AND MOUNTING HEIGHTS OF ALL PLUMBING FIXTURES WITH CASEWORK AND ARCHITECTURAL DRAWINGS.

PLUMBING NOTES

1. PROVIDE WATER HAMMER ARRESTORS AT THE END OF HOT AND COLD WATER LINES SERVING TWO OR MORE FIXTURES: SIZE IN ACCORDANCE WITH WITH PDI REQUIREMENTS. ACCESS NOT REQUIRED.
2. PLUMBING CONTRACTOR TO PROVIDE SHUT–OFF VALVES TO ALL PLUMBING EQUIPMENT AND FIXTURES. COORDINATE ACCESS PANELS WITH ARCHITECT AS REQUIRED.
3. FOR PIPING PENETRATIONS OF FLOORS AND WALLS, REFER TO DETAILS ON SHEET P2.1.
4. PROVIDE PIPE INSULATION PER WSEC AND SPECIFICATIONS. REFER TO DETAIL ON SHEET P2.1.
5. SLOPE SANITARY WASTE DOWNWARDS AT 1/4–INCH PER LINEAR FOOT. SLOPE VENTS UP AT 1/8–INCH PER LINEAR FOOT.
6. SLOPE DOMESTIC WATER PIPING AND PROVIDE HOSE END DRAIN VALVES AS REQUIRED FOR SYSTEM DRAINAGE.
7. PROVIDE CLEANOUTS IN ACCORDANCE WITH UPC REQUIREMENTS. REFER TO DETAILS ON SHEET P2.1.
8. PROVIDE PIPE HANGERS IN ACCORDANCE WITH REQUIREMENTS OF UPC. FOR PIPE HANGER DETAILS AND CONNECTIONS TO STRUCTURE, REFER TO DETAILS ON SHEET P2.2.
9. PROVIDE TRAP PRIMERS TO ALL FLOOR DRAINS – REFER TO SPECIFICATIONS. COORDINATE ACCESS WITH GENERAL CONTRACTOR.
10. EFFICIENT HEATED WATER SUPPLY PIPING: HEATED WATER SUPPLY PIPING SHALL BE IN ACCORDANCE WITH SEC SECTION C404.3.1 OR C404.3.2. REFER TO THIS SHEET FOR CODE REQUIREMENTS.

SEC C404.3—EFFICIENT HEATED WATER SUPPLY PIPING.

C404.3 EFFICIENT HEATED WATER SUPPLY PIPING. HEATED WATER SUPPLY PIPING SHALL BE IN ACCORDANCE WITH SECTION C404.3.1 OR C404.3.2. THE FLOW RATE THROUGH 1/4–INCH (6.4 MM) PIPING SHALL BE NOT GREATER THAN 0.5 GPM (1.9 L/M). THE FLOW RATE THROUGH 5/16–INCH (7.9 MM) PIPING SHALL BE NOT GREATER THAN 1 GPM (3.8 L/M). THE FLOW RATE THROUGH 3/8–INCH (9.5 MM) PIPING SHALL BE NOT GREATER THAN 1.5 GPM (5.7 L/M). WATER HEATERS, CIRCULATING WATER SYSTEMS AND HEAT TRACE TEMPERATURE MAINTENANCE SYSTEMS SHALL BE CONSIDERED SOURCES OF HEATED WATER.

C404.3.1 MAXIMUM ALLOWABLE PIPE LENGTH METHOD. THE MAXIMUM ALLOWABLE PIPING LENGTH FROM THE NEAREST SOURCE OF HEATER WATER TO THE TERMINATION OF THE FIXTURE SUPPLY PIPE SHALL BE IN ACCORDANCE WITH THE FOLLOWING. WHERE THE PIPING CONTAINS MORE THAN ONE SIZE OF PIPE, THE LARGEST SIZE OF PIPE WITHIN THE PIPING SHALL BE USED FOR DETERMINING THE MAXIMUM ALLOWABLE LENGTH OF THE PIPING IN TABLE C404.3.1.

1. FOR A PUBLIC LAVATORY FAUCET, USE THE "PUBLIC LAVATORY FAUCETS" COLUMN IN TABLE C404.3.1.
2. FOR ALL OTHER PLUMBING FIXTURES AND PLUMBING APPLIANCES, USE THE "OTHER FIXTURES AND APPLIANCES" COLUMN IN TABLE C404.3.1.

Table C404.3.1
Piping Volume and Maximum Piping Lengths

Nominal Pipe Size (inches)	Volume (liquid ounces per foot length)	Maximum Piping Length (feet)	
		Public lavatory faucets	Other fixtures and appliances
1/4	0.33	6	50
5/16	0.5	4	50
3/8	0.75	3	50
1/2	1.5	2	43
5/8	2	1	32
3/4	3	0.5	21
7/8	4	0.5	16
1	5	0.5	13
1 1/4	8	0.5	8
1 1/2	11	0.5	6
2 or larger	18	0.5	4

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MECHANICAL ENGINEERING
336 NW 50th St, Seattle, WA 98107
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STEVEN P. RAINBOW · STATE OF WASHINGTON · 36615 · REGISTERED PROFESSIONAL ENGINEER
12/04/2020

Seattle Parks & Recreation

GAS WORKS PARK

Gas Works Park - Comfort Station & East Entry/ADA - 95% CD

Plumbing Legend, Notes, Abbreviations

DESIGNED S. RAINBOW
DRAWN S. RAINBOW
CHECKED
DATE December 4, 2020
SHEET X OF X

ORDINANCE NO.
GW CS – 124590–2008 PLF
SDOT Sidewalk – 125207–REET1
East Entry/ADA – 125207–REET1
CONTRACT NO. 2055

SCALE AS NOTED

P0.1

PLUMBING FIXTURE CONNECTIONS

MARK		P1	P2	P3	P4	P5	P6	
DESCRIPTION		1.6 GPF, WALL MOUNT ADA FLUSH VALVE WATER CLOSET	WALL MOUNT ADA LAVATORY	FLOOR MOUNTED MOP SINK	ADA WALL MTD DOUBLE BOWL DRINKING FOUNTAIN W/ BOTTLE FILL	ENCASED NON FREEZE HOSE BIBB	HOSE BIBB	
ROUGH-IN	COLD WATER: IN	1-1/2	1/2	3/4	1/2	3/4	3/4	
	HOT WATER: IN	–	1/2	3/4	–	–	–	
	WASTE: IN	4	1-1/2	3	1-1/2	–	–	
	VENT: IN	2	1-1/2	2	1-1/2	–	–	
REMARKS		[1, 2]	[1, 3, 5]		[1]	[4]	[4]	

NOTES:

1. MOUNT FIXTURE PER ADA STANDARDS AS REQUIRED BY ARCHITECTURAL PLANS.
2. PROVIDE WITH 200-WATT "HOT POT", CHROMALOX SCB-200.
3. PROVIDE WASTE LINE AND WATER LINES WITH INSULATING COVERS. REFER TO SPECIFICATIONS.
4. PROVIDE WITH VACUUM BREAKER.
5. PROVIDE LAVATORY WITH MIXING VALVE. REFER TO SPECIFICATIONS.

STORAGE WATER HEATER: ELECTRIC

MARK		WH-1		
LOCATION		CHASE		
CAPACITY	TYPE	TANK		
	INPUT: KW	4.5		
	ELEMENTS: NUMBER	1 @ 4.5KW		
	RISE: GPH [1]	21		
	SIZE: GALLON	20		
ELECTRICAL	VOLT/PHASE	208/1		
UNIT WEIGHT	WET WEIGHT: LBS	253		
BASIS OF DESIGN	MANUFACTURER	AO SMITH		
	MODEL	DEL-20		
	REMARKS	[2]		

NOTES:

1. RECOVERY (80°F) RISE.
2. FOR INSTALLATION, REFER TO DETAIL 5 ON SHEET P2.2.

DRAINS

MARK		D1	
DESCRIPTION		FLOOR DRAIN	
SIZE	PIPE SIZE: IN	3	
	SIZE: IN	5 x 5	
	TRAP PRIMER: IN	1/2	
MATERIAL	BODY	DUCO CI	
	STRAINER / GRATE	NICK. BRO.	
BASIS OF DESIGN	MANUFACTURER	ZURN	
	MODEL	ZN415-3NH-5S-P-VP	
REMARKS	NOTES	[1, 2]	

NOTES:

1. REFER TO DETAIL 3 ON SHEET P2.1.
2. PROVIDE WITH VANDAL PROOF SCREWS.

PLUMBING PIPE INSULATION

FLUID	INSULATION CONDUCTIVITY		NOMINAL PIPE SIZE (IN.)		
	CONDUCTIVITY RANGE BTU·IN/h·ft^2F 0.22 – 0.28	MEAN RATING TEMP °F	<1	1 TO <1-1/2	1-1/2 TO <4
CW	0.21-0.27	75	1.0	1.0	1.0
HW	0.21-0.28	100	1.0	1.0	1.5

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35615
REGISTERED
PROFESSIONAL ENGINEER
12/04/2020

Seattle Parks & Recreation

GAS WORKS PARK

Gas Works Park - Comfort Station & East Entry/ADA - 95% CD

Plumbing Schedules

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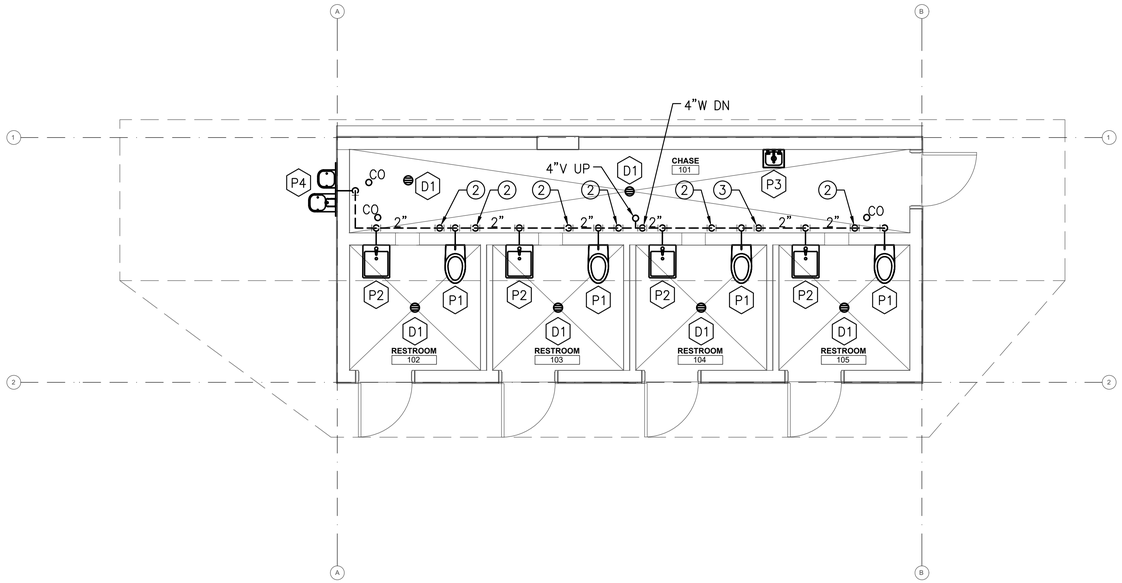
CONTRACT NO. 2055

SCALE AS NOTED

P0.2

KEY NOTES:

1. 1½"V DOWN.
2. 2"V DOWN.



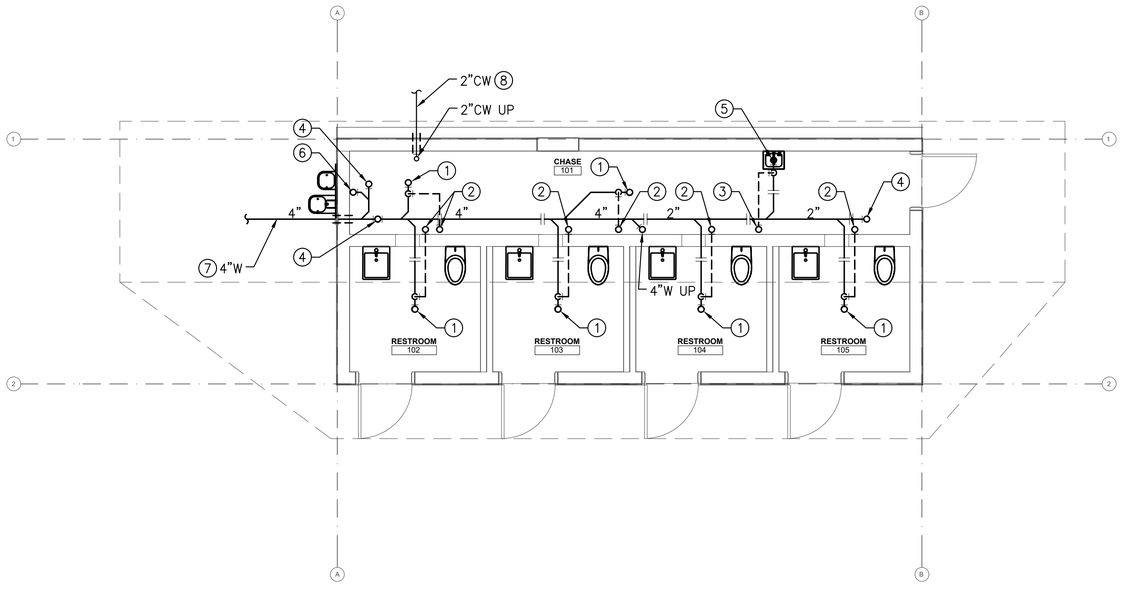
2 WASTE & VENT PLUMBING PLAN

SCALE: 1/4" = 1'

1/4"=1'-0" Scale 2 0 2 4 6 8 10 Feet

KEY NOTES:

1. 2"W UP TO D1.
2. 1½"V UP.
3. 2"V UP.
4. UP TO CLEANOUT.
5. 3"W UP TO P4
6. 1½"W UP TO P5.
7. SEE CIVIL UTILITY PLAN FOR CONTINUATION.



1 FOUNDATION PLUMBING PLAN

SCALE: 1/4" = 1'

1/4"=1'-0" Scale 2 0 2 4 6 8 10 Feet

>>>>CAUTION - CALL 811<<<<
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Seattle Parks & Recreation

GAS WORKS PARK

Gas Works Park - Comfort Station & East Entry/ADA - 95% CD

Plumbing Foundation + Waste & Vent Plans

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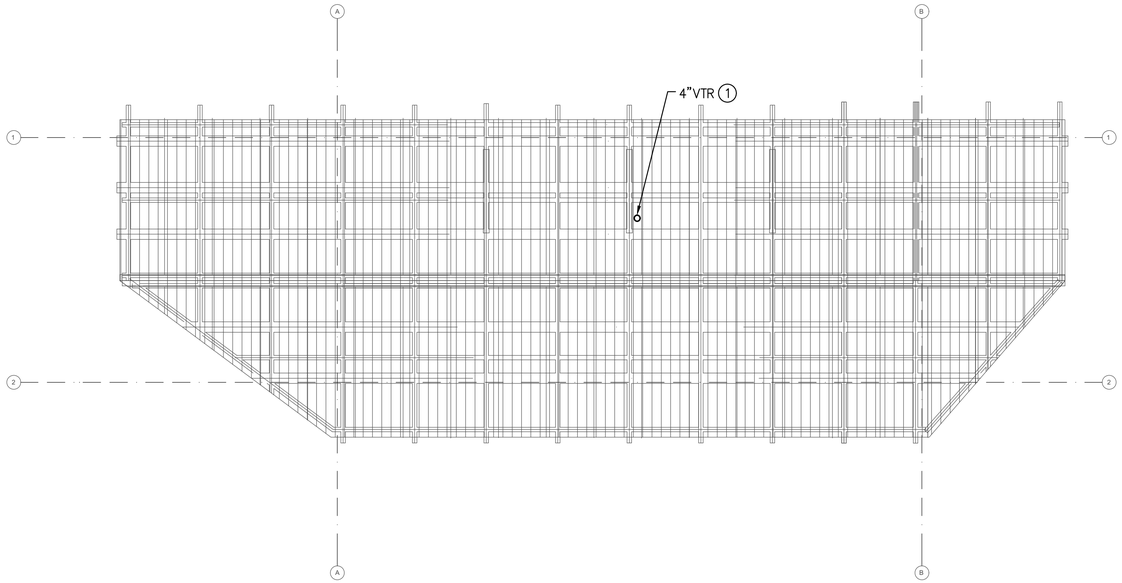
SCALE AS NOTED

P1.1

KEY NOTES:

(1) FOR PLUMBING VENT TERMINATION, REFER TO DETAIL 1 ON SHEET P2.1. PROVIDE VANDAL PROOF CAP.



2 PLUMBING ROOF PLAN
SCALE: 1/4" = 1'

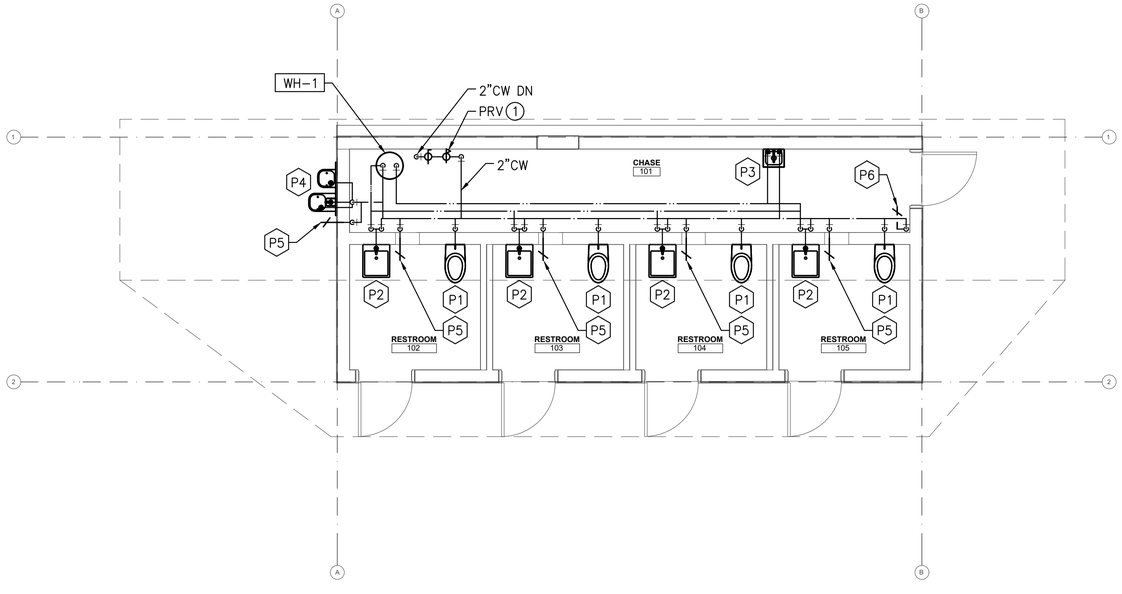
1/4"=1'-0" 2 0 2 4 6 8 10
Scale Feet

KEY NOTES:

(1) FOR PRV INSTALLATION SEE DETAIL 4 ON SHEET P2.2.

PLAN NOTES:

1. PROVIDE HEAT TRACE FOR ALL DOMESTIC WATER PIPING. REFER TO SPECIFICATIONS.



1 DOMESTIC WATER PLUMBING PLAN
SCALE: 1/4" = 1'

1/4"=1'-0" 2 0 2 4 6 8 10
Scale Feet

>>>>CAUTION - CALL 811<<<<
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Seattle Parks & Recreation

GAS WORKS PARK

Gas Works Park - Comfort Station & East Entry/ADA - 95% CD

Plumbing Domestic Water + Roof Plans

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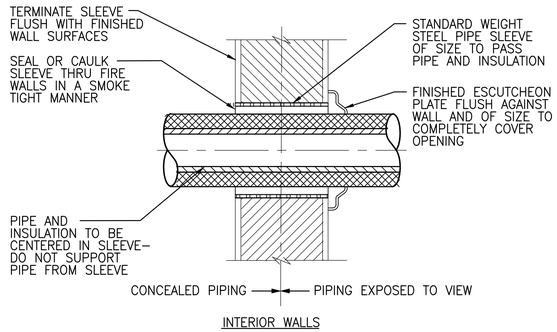
SCALE AS NOTED

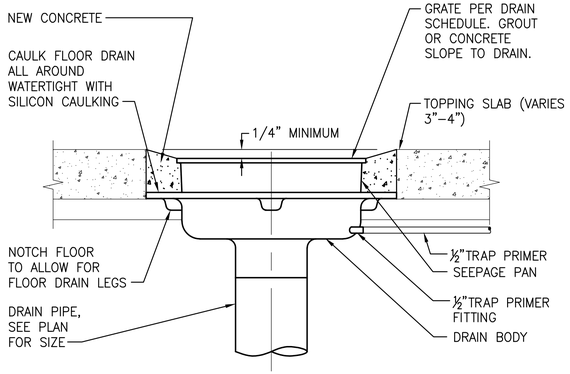
P1.2



PIPE SLEEVES THROUGH WALLS

SCALE: NONE

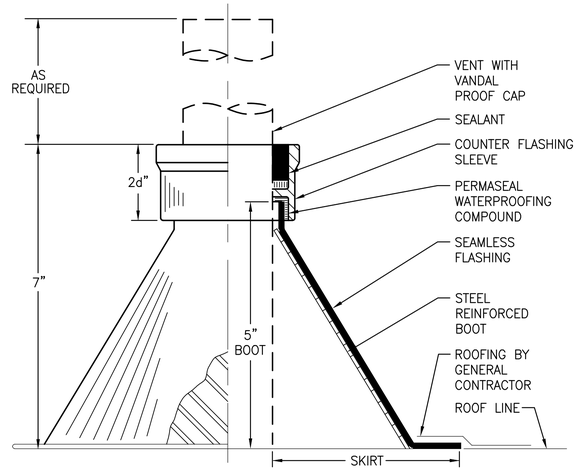
5



FLOOR DRAIN INSTALLATION

SCALE: NONE

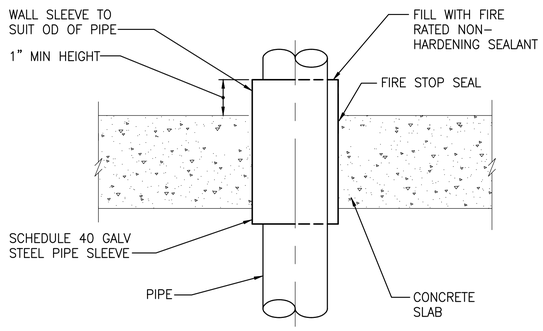
3



VENT THROUGH ROOF

SCALE: NONE

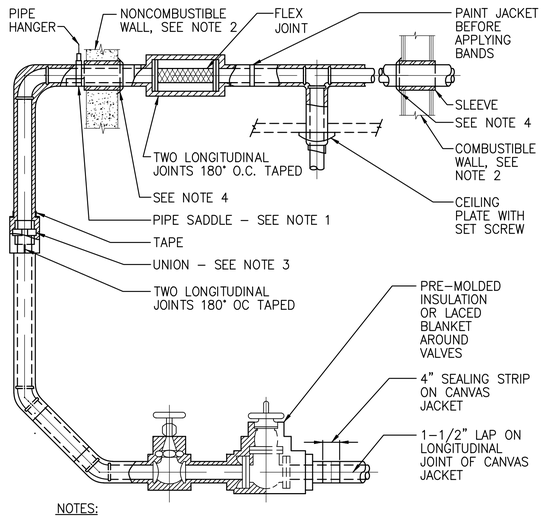
1



FLOOR SLEEVE

SCALE: NONE

6



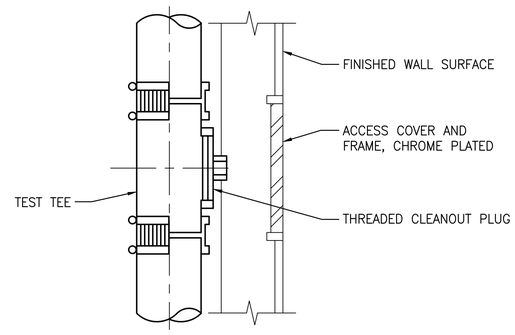
NOTES:

1. PIPE SADDLES REQUIRED ON ALL INSULATED LINES AT HANGERS.
2. INSULATION SHOULD BE CONTINUOUS THRU WALL WITH A 1/4" SPACE BETWEEN INSULATION AND SLEEVE UNLESS OTHERWISE SPECIFIED.
3. DO NOT INSULATE UNIONS IN HEATING SYSTEMS.
4. ESCUTCHEON PLATE IN AREAS EXPOSED TO VIEW.

PIPE INSULATION

SCALE: NONE

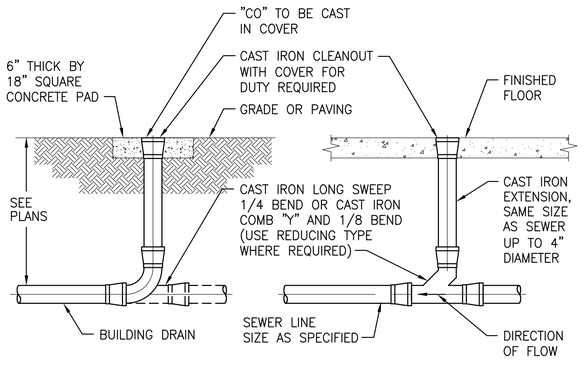
4



WALL CLEANOUTS

SCALE: NONE

2



FLOOR CLEANOUTS

SCALE: NONE

7

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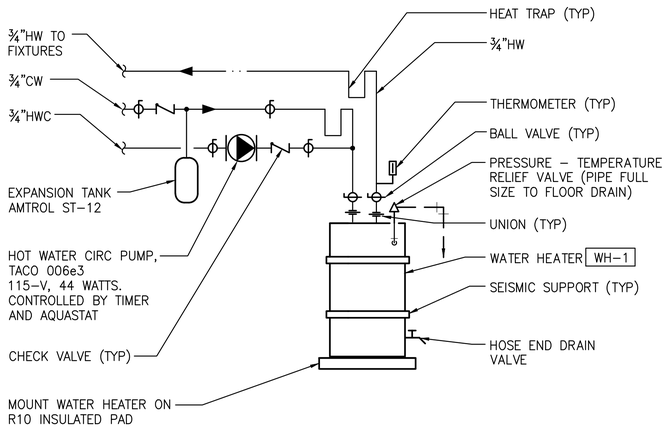
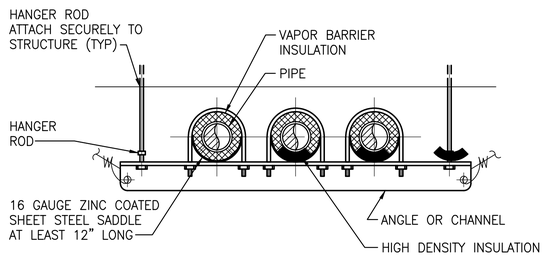
P2.1



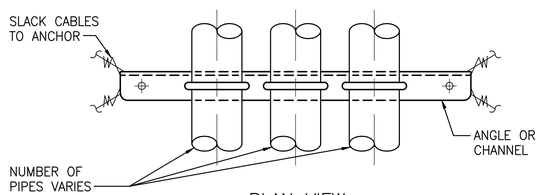
WATER HEATER PIPING

SCALE: NONE

5



SECTION

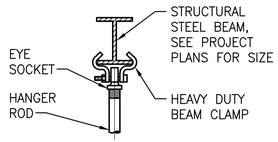


PLAN VIEW

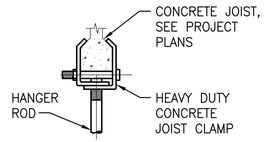
TRAPEZE PIPE HANGER

SCALE: NONE

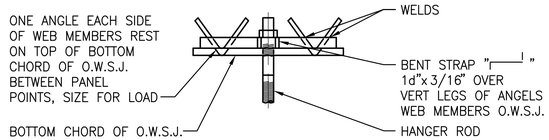
6



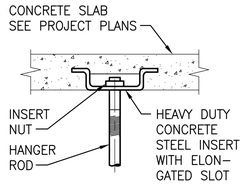
STEEL BEAM



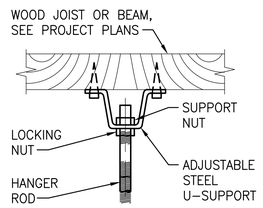
CONCRETE JOISTS



STEEL JOISTS



CONCRETE INSERT

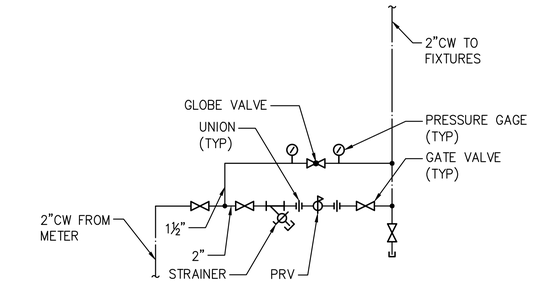


WOOD JOISTS

HANGER ATTACHMENT TO STRUCTURE

SCALE: NONE

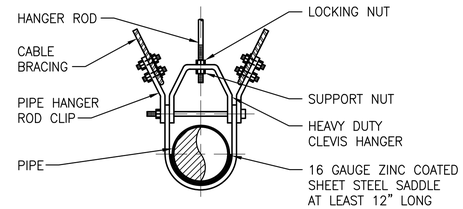
3



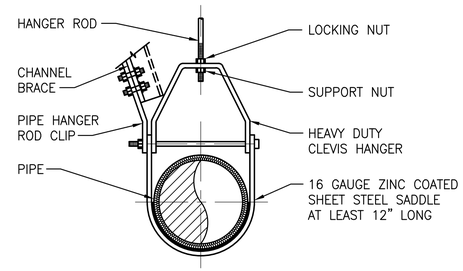
PRV INSTALLATION

SCALE: NONE

4



CLEVIS HANGER
WITH CABLE BRACING

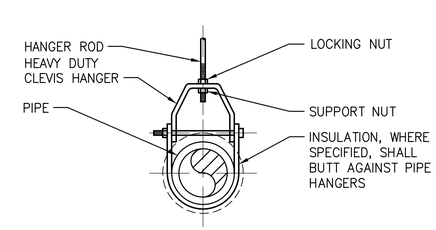


CLEVIS HANGER
WITH CHANNEL BRACING

SEISMIC PIPE SUPPORTS

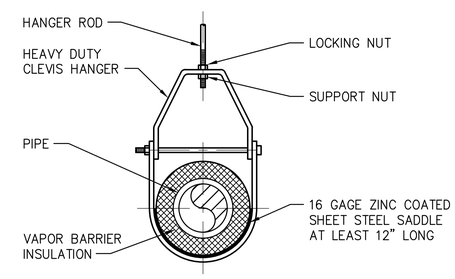
SCALE: NONE

1



CLEVIS HANGER

SINGLE HORIZONTAL RUNS, NO VAPOR BARRIER INSULATION



CLEVIS HANGER

SINGLE HORIZONTAL RUNS, VAPOR BARRIER INSULATION

PIPE SUPPORTS

SCALE: NONE

2

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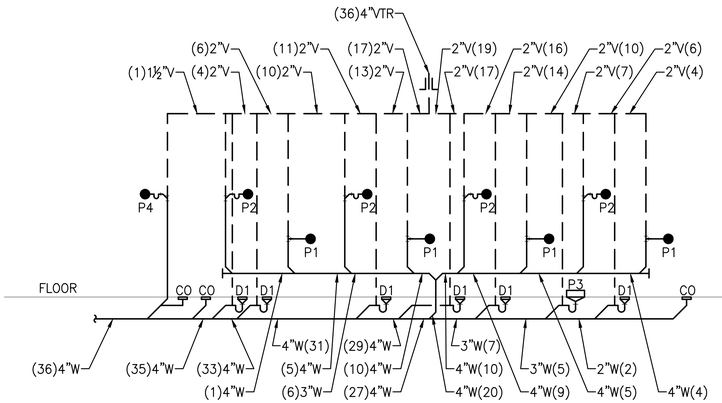
SCALE AS NOTED

P2.2

DRAINAGE FIXTURE UNITS			
Fixture	Count	DFU	Total DFU
water closet	4	4	16
floor drain	6	2	12
lav	4	1	4
mop sink	1	3	3
drinking fountain	1	1	1
Grand Total			36

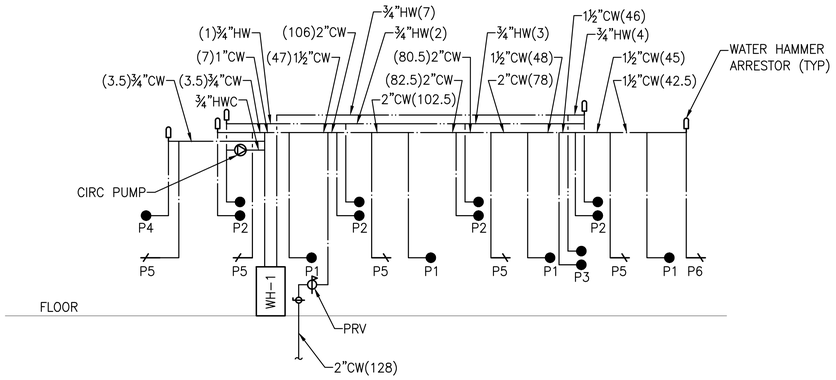


WASTE AND VENT RISER DIAGRAM

SCALE: NONE

1

WATER SUUPLY FIXTURE UNITS			
Fixture	Count	FU	Total FU
lav	4	1	4
mop sink	1	3	3
hosebib	6	2.5	15
water closet	4		105
drinking fountain	1	1	1
Grand Total			128



DOMESTIC WATER RISER DIAGRAM

SCALE: NONE

2

>>>>CAUTION - CALL 811<<<<
UTILITY NOTIFICATION CENTER
BEFORE YOU DIG!
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ALSO CONTRACT WITH A COMMERCIAL UNDERGROUND UTILITIES LOCATOR SERVICE TO IDENTIFY BELOW-GROUND INFRASTRUCTURE THAT MAY NOT BE LOCATED BY CALL 811 BEFORE-YOU-DIG.

NO.	REVISION – AS BUILT	DATE
3		
2		
1		

REVIEWED:
PARK ENGINEER DATE

All work done in accordance with the City of Seattle Standard Plans and Specifications in effect on the date shown above, and supplemented by Special Provisions.

RAINBOW CONSULTING LLC
MECHANICAL ENGINEERING
336 NW 50th St, Seattle, WA 98107
206.235.6002, steven@rainbowconsulting-me.com

STEVEN P. RAINBOW
STATE OF WASHINGTON
35615
REGISTERED
PROFESSIONAL ENGINEER
12/04/2020

Seattle Parks & Recreation

Gas Works Park - Comfort Station & East Entry/ADA - 95% CD

Plumbing Riser Diagrams

DESIGNED S. RAINBOW	DATE December 4, 2020
DRAWN S. RAINBOW	SHEET X OF X
CHECKED	
ORDINANCE NO. GW CS – 124590–2006 PLF SDOT Sidewalk – 125207–REET1 East Entry/ADA – 125207–REET1	P3.1
CONTRACT NO. 2055	
SCALE AS NOTED	

ELECTRICAL SYMBOLS

LIGHTING

- XX / YY — LUMINAIRE: XX = LUMINAIRE TYPE; YY = CIRCUIT NUMBER; XXE = LUMINAIRE TYPE ENDING IN E INDICATE BATTERY BACKUP
- LUMINAIRE ON EMERGENCY CIRCUIT
- RECESSED LINEAR LUMINAIRE
- RECESSED 1x4 LUMINAIRE
- WALL MOUNT LINEAR LUMINAIRE
- $OS — SWITCH WITH OCCUPANCY SENSOR

SPECIAL SYSTEMS

FIRE ALARM

- MANUAL PULL STATION WITH GUARD
- HORN/STROBE
- HORN/STROBE – CEILING MOUNT
- STROBE
- STROBE – CEILING MOUNT
- BELL
- SMOKE DETECTOR

TELECOMMUNICATIONS

- X — TELECOMMUNICATIONS OUTLET; X = QTY. OF CAT 6 JACKS

SECURITY SYSTEM

- $T — SWITCH WITH TIMER

RACEWAYS

- RACEWAY CONCEALED IN WALL OR CEILING, EXPOSED IN UNFINISHED AREAS
- RACEWAY CONCEALED BELOW FLOOR
- FLEXIBLE CONDUIT FIXTURE WHIP WITH CONDUCTORS
- A–1,3,5 — BRANCH CIRCUIT WIRING SHOWING CIRCUIT HOME RUN TO PANELBOARD. PROVIDE DEDICATED NEUTRAL FOR EACH CIRCUIT.
- RACEWAY TURNING UP
- RACEWAY TURNING DOWN
- CIRCUIT CONTINUATION
- LV — LOW VOLTAGE WIRING
- J — JUNCTION BOX
- PB — PULL BOX

RECEPTACLES

- DUPLEX RECEPTACLE – NEMA 5–15R (NEMA 5–20R FOR DEDICATED CIRCUIT)
- DUPLEX RECEPTACLE – ABOVE COUNTER. COORDINATE W/ ARCH. ELEVATIONS
- D — DUPLEX RECEPTACLE – DEDICATED (NEMA 5–20R)
- WP — DUPLEX RECEPTACLE – WEATHERPROOF W/LOCKING LOCK
- GFCI — DUPLEX RECEPTACLE – GROUND FAULT CIRCUIT INTERRUPTER
- DOUBLE DUPLEX RECEPTACLE

EQUIPMENT

- PANELBOARD 277/480V
- PANELBOARD 120/208V OR 120/240V
- CABINET – TYPE AS INDICATED ON PLAN
- SWITCHBOARD
- T — TRANSFORMER – SIZE AND VOLTAGE AS INDICATED ON PLAN
- HORSEPOWER RATED TOGGLE SWITCH WITH OVERLOAD PROTECTION
- COMBINATION STARTER; HP RATED, 3–POLE, NEMA 1 MINIMUM UNLESS NOTED OTHERWISE – OVERCURRENT PROTECTION AS REQUIRED
- NON–FUSED DISCONNECT SWITCH – SIZE PER CONNECTED LOAD
- F — FUSED DISCONNECT SWITCH – SIZE PER CONNECTED LOAD. PROVIDE FUSES PER EQUIPMENT NAMEPLATE.
- EQUIPMENT CONNECTION
- EF–1 — MECHANICAL EQUIPMENT CALLOUT. REFER TO MECHANICAL EQUIPMENT SCHEDULE.
- FLUSH FLOOR BOX
- R — RELAY

ELECTRICAL RISER

- GROUND
- 30A/3P — CIRCUIT BREAKER; NUMBER INDICATED TRIP SETTING AND NUMBER OF POLES
- PNL — PANELBOARD
- CURRENT TRANSFORMER (CT)
- XXX — FEEDER TYPE – REFER TO FEEDER SCHEDULE ON ONE–LINE
- M — UTILITY METER
- SURGE PROTECTIVE DEVICE (SPD)
- XXXXX — AVAILABLE FAULT CURRENT

ELECTRICAL ABBREVIATIONS

AF	AMPERE FRAME
AFF	ABOVE FINISHED FLOOR
AHU	AIR HANDLING UNIT
AIC	AMPERE INTERRUPTING CURRENT
AMP	AMPERE
AS	AMPERE SWITCH
ASV	AIR SOLENOID VALVE
AT	AMPERE TRIP
ATS	AUTOMATIC TRANSFER SWITCH
AWG	AMERICAN WIRE GAUGE
BAS	BUILDING AUTOMATION SYSTEM
BBO	BACKBOARD OPERATOR
BL	BLEACHERS
BLDG	BUILDING
C	CONDUIT
CAB	CABINET
CB	CIRCUIT BREAKER
CCTV	CLOSED CIRCUIT TELEVISION
CKT	CIRCUIT
CLG	CEILING
CM	COFFEE MAKER
CMU	CONCRETE MASONRY UNIT
CO	CONDUIT ONLY
COMM	COMMUNICATION
COP	COPIER
CT	COOK TOP
CT	CURRENT TRANSFORMER
CU	COPPER
DCVA	DOUBLE CHECK VALVE ASSEMBLY
DET	DETAIL
DIA	DIAMETER
DISC	DISCONNECT
DSPL	DISPOSAL
DN	DOWN
DO	DOOR OPERATOR
DPST	DOUBLE POLE, SINGLE THROW
DRY	DRYER
DW	DISHWASHER
DWG	DRAWING
EA	EACH
EF	EXHAUST FAN
EH	ELECTRIC HEATER
EHD	ELECTRIC HAND DRYER
ELEC	ELECTRIC
ELEV	ELEVATOR
EMT	ELECTRICAL METALLIC TUBING
EPO	EMERGENCY POWER OFF
EQUIP	EQUIPMENT
EWC	ELECTRIC WATER COOLER
EWH	ELECTRIC WATER HEATER
EWS	ELECTRIC WINDOW SHADE
EXIST	EXISTING
FA	FIRE ALARM
FAAP	FIRE ALARM ANNUNCIATOR PANEL
FACP	FIRE ALARM CONTROL PANEL
FDMPR	FIRE DAMPER
FH	FUME HOOD
FMT	FLEXIBLE METALLIC TUBING
FU or F	FUSE
FVNR	FULL VOLTAGE NON–REVERSING
G	GROUND
GALV	GALVANIZED
GC	GOGGLE CABINET
GD	GARBAGE DISPOSAL
GEC	GROUNDING ELECTRODE CONDUCTOR
GEN	GENERATOR
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GSV	GAS SOLENOID VALVE
HH	HAND HOLE
HID	HIGH INTENSITY DISCHARGE
HP	HORSEPOWER
HPF	HIGH POWER FACTOR
HPS	HIGH PRESSURE SODIUM
HT	HEAT TRACE
IH	INSTAHOT
IM	ICE MACHINE
IWD	INTERCOM WALL DISPLAY
J–BOX	JUNCTION BOX
kcmil	THOUSAND CIRCULAR MILS
kV	KILOVOLT
kVA	KILOVOLT AMPERE
kW	KILOWATT
kWh	KILOWATT HOUR
MAX	MAXIMUM
MCC	MOTOR CONTROL CENTER
MFR	MANUFACTURER
MECH	MECHANICAL
MH	MANHOLE; METAL HALIDE
MIN	MINIMUM
ML	MAGNETIC LOCK
MLO	MAIN LUGS ONLY
MTD	MOUNTED
MTG	MOUNTING
MW	MICROWAVE
NEC	NATIONAL ELECTRICAL CODE
NEUT	NEUTRAL
NC	NORMALLY CLOSED
NIC	NOT IN CONTRACT
NO	NUMBER; NORMALLY OPEN
NTS	NOT TO SCALE
OD	OVERHEAD (COILING) DOOR
OF/CI	OWNER FURNISHED / CONTRACTOR INSTALLED
OF/OI	OWNER FURNISHED / OWNER INSTALLED
PF	POWER FACTOR
PH or ø	PHASE
PIV	POST INDICATOR VALVE
PNL	PANEL
PROJ	PROJECTOR
PS	PROJECTION SCREEN
PTR	PRINTER
PVC	POLYVINYL CHLORIDE (PLASTIC)
PWR	POWER
QTY	QUANTITY
RA FAN	RETURN AIR FAN
RECPT	RECEPTACLE
REF	REFRIGERATOR
REQD	REQUIRED
RH	RANGE HOOD
RMC	RIGID METAL CONDUIT
RNG	RANGE
RSD	ROLLING STEEL DOOR
SDMPR	SMOKE DAMPER
SF	SUPPLY FAN
SOLV	SOLENOID VALVE
SPD	SURGE PROTECTIVE DEVICE
SPEC	SPECIFICATION
SPST	SINGLE POLE, SINGLE THROW
ST	SHUNT TRIP
STD	STANDARD
STL	STEEL
SW	SWITCH
SWBD	SWITCHBOARD
SWGR	SWITCHGEAR
TEL	TELEPHONE
TEMP	TEMPORARY
TP	TRAP PRIMER
TR	TAMPER RESISTANT
TTB	TELEPHONE TERMINAL BOARD
TYP	TYPICAL
UC	UNDER COUNTER
UGND	UNDERGROUND
UH	UNIT HEATER
UL	UNDERWRITERS LABORATORIES
UON	UNLESS OTHERWISE NOTED
UPS	UNINTERRUPTIBLE POWER SUPPLY
USB	UNIVERSAL SERIAL BUS
V	VOLT
VA	VOLT AMPERE
VFD	VARIABLE FREQUENCY DRIVE
VM	VENDING MACHINE
W	WATT
W/	WITH
WAC	WASHINGTON ADMINISTRATIVE CODE
WAS	WASHER
W/D	STACKED WASHER / DRYER
WF	WASH FOUNTAIN
WM	WASHING MACHINE
W/O	WITHOUT
WON	WON DOOR
WP	WEATHERPROOF; WATERPROOFING
XFMR	TRANSFORMER
Z	IMPEDANCE

DEVICE MOUNTING HEIGHTS

SPECIAL OUTLET HEIGHTS ARE SHOWN ON THE ELECTRICAL DRAWINGS OR ON THE ARCHITECTURAL DRAWINGS. IF SPECIAL OUTLET HEIGHTS ARE NOT SHOWN OR REQUIRED, THEN LOCATE OUTLETS AS NOTED BELOW. OUTLET HEIGHTS ARE MEASURED FROM THE FINISHED FLOOR TO THE CENTERLINE OF THE OUTLET UNLESS OTHERWISE NOTED.

RECEPTACLES	18 INCHES VERITCALLY MOUNTED
LIGHT SWITCHES	48 INCHES VERTICALLY MOUNTED
PANELBOARDS	72 INCHES TO TOP OF PANELBOARD

1. COORDINATE ROUGH–IN WITH ARCHITECTURAL ELEVATIONS.
2. WHERE A CONFLICT EXISTS, THE ARCHITECTURAL ELEVATIONS GOVERN.

DRAWING INDEX

SHEET NUMBER	DESCRIPTION
E0.1	COVER SHEET AND GENERAL INFORMATION
E0.2	GENERAL NOTES
E0.3	LUMINAIRE AND PANEL SCHEDULES
E0.4	NREC
E1.1	LIGHTING, POWER, & SYSTEMS PLAN
E2.1	ONE–LINE DIAGRAM

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2		
1		

REVIEWED: _____ PARK ENGINEER _____ DATE

All work done in accordance with the City of Seattle Standard Plans and Specifications in effect on the date shown above, and supplemented by Special Provisions.

COFFMAN ENGINEERS
1101 2nd Avenue, Suite 400
Seattle, WA 98101
ph 206.623.0717
www.coffman.com

CHRISTOPHER J. BUTLER — STATE OF WASHINGTON — 51341 — REGISTERED PROFESSIONAL ENGINEER
1/11/2021

Seattle Parks & Recreation

GAS WORKS PARK

Gas Works Park - Comfort Station & East Entry/ADA - Permit Set

COVER SHEET & GENERAL INFORMATION

DESIGNED CEI
DRAWN CEI
CHECKED CJB
DATE January 13, 2021
SHEET ____ OF ____

ORDINANCE NO.
GW CS - 124590 - 2008 PLF
SDOT Sidewalk – 125207 – REET 1
East Entry/ADA – 125207 - REET I
CONTRACT NO. 2055
SCALE AS NOTED

E0.1

EQUIPMENT SCHEDULE

ABBREVIATION	NAME	RATING	BRANCH CIRCUIT	CONNECTION	DISCONNECT	REMARKS
EHD	ELECTRIC HAND DRYER	120V–1ø–1.5kW	3/4" – 2#10 & 1#10 G	HW	–	
HT	HEAT TRACE	120V–1ø–8W/FT	1/2" – 3#12	HW	–	COORDINATE LOCATION WITH MECHANICAL. PROVIDE GFPE BREAKER.
ETH	ELECTRIC TOILET HEATER	120V–1ø–0.2kVA	1/2" – 3#12	VERIFY	–	PROVIDE GFPE BREAKER.
EWC	ELECTRIC WATER COOLER	120V–1ø–0.6kVA	1/2" – 3#12	VERIFY	–	PROVIDE GFPE BREAKER.

NOTES:
1. NOT ALL EQUIPMENT TYPES ARE UTILIZED ON THIS PROJECT.
2. VERIFY REQUIREMENTS PRIOR TO ROUGH–IN.
3. CONNECTIONS:
   HW = HARD WIRED CONNECTION
   VERIFY = PROVIDE RECEPTACLE OR HARDWIRED CONNECTION PER MANUFACTURER'S SHOP DRAWINGS.
4. DISCONNECTS: PROVIDE PER MANUFACTURER'S SHOP DRAWINGS. PROVIDE HORSEPOWER RATED SWITCH (HRS) FOR SINGLE PHASE LOADS, 1/2 HP AND LESS.

BRANCH CIRCUIT WIRING

THE FOLLOWING GENERAL NOTES APPLY TO ALL DRAWINGS

1. IN GENERAL ONLY CIRCUIT NUMBERS HAVE BEEN SHOWN ON THE DRAWINGS. THE CONTRACTOR SHALL PROVIDE ALL REQUIRED RACEWAYS AND WIRING.
2. SHOW ALL RACEWAYS AND WIRING ON AS–BUILT DRAWINGS.
3. GENERAL:
   - 3.A. MINIMUM RACEWAY SIZE SHALL BE ¾".
   - 3.B. NO MORE THAN 7 #12 AWG CONDUCTORS SHALL BE INSTALLED IN A RACEWAY.
   - 3.C. HOMERUNS GREATER THAN 75 FEET TO THE FIRST DEVICE SHALL BE NO. 10 AWG.
   - 3.D. LIGHTING, POWER, AND MECHANICAL EQUIPMENT CONDUCTORS SHALL NOT BE COMBINED IN THE SAME RACEWAY.
   - 3.E. PROVIDE A GROUND CONDUCTOR IN ALL RACEWAYS.
   - 3.F. PROVIDE A DEDICATED NEUTRAL CONDUCTOR FOR EACH BRANCH CIRCUIT.
4. LIGHTING:
   - 4.A. PROVIDE CONDUCTORS AS REQUIRED TO PROVIDE CIRCUITING AND SWITCHING DUTY AS SHOWN ON THE DRAWINGS.
   - 4.B. PROVIDE A DEDICATED NEUTRAL CONDUCTOR FOR EACH BRANCH CIRCUIT.
5. POWER:
   - 5.A. PROVIDE CONDUCTORS AS REQUIRED TO PROVIDE CIRCUITING SHOWN.
   - 5.B. FOR OTHER THAN 15 OR 20 AMP SINGLE PHASE RECEPTACLE BRANCH CIRCUITS PROVIDE A DEDICATED HOMERUN TO THE PANEL.
   - 5.C. FOR 30 AMP BRANCH CIRCUITS PROVIDE #10 AWG CONDUCTORS.
   - 5.D. FOR 40 AMP AND LARGER BRANCH CIRCUITS PROVIDE RACEWAYS AND WIRING AS SHOWN ON THE DRAWINGS.
   - 5.E. PROVIDE A DEDICATED NEUTRAL CONDUCTOR FOR EACH BRANCH CIRCUIT.
6. MECHANICAL EQUIPMENT: PROVIDE RACEWAYS AND WIRING AS SHOWN ON THE MECHANICAL EQUIPMENT CONNECTION SCHEDULE.

WASHINGTON STATE NONRESIDENTIAL ENERGY CODE COMPLIANCE

1. LIGHTING: THE CONTRACTOR SHALL PROVIDE A WRITTEN CERTIFICATION VERIFYING THAT ALL LAMPS AND BALLASTS HAVE BEEN PROVIDED PER THE SPECIFICATIONS. PROVIDE A LIST WHICH INDICATES THE EXACT PART NUMBER OF THE LAMP AND BALLAST PROVIDED FOR EACH FIXTURE TYPE. INCLUDE THE CERTIFICATION AND THE LAMP/BALLAST LIST IN THE O&M MANUAL.
2. COMMISSIONING REQUIREMENTS: ALL LIGHTING CONTROLS INCLUDING DAYLIGHT OR OCCUPANT SENSING AUTOMATIC CONTROLS, AUTOMATIC SHUT OFF CONTROLS, OCCUPANCY SENSORS OR AUTOMATIC TIME SWITCHES, THE LIGHTING CONTROLS SHALL BE TESTED TO ENSURE THAT CONTROL DEVICES, COMPONENTS, EQUIPMENT AND SYSTEMS ARE CALIBRATED, ADJUSTED AND OPERATE IN ACCORDANCE WITH APPROVED PLANS AND SPECIFICATIONS. SEQUENCE OF OPERATIONS SHALL BE FUNCTIONALLY TESTED TO ENSURE THEY OPERATE IN ACCORDANCE WITH APPROVED PLANS AND SPECIFICATIONS. THE CONTRACTOR SHALL PROVIDE A WRITTEN STATEMENT CERTIFYING ALL LIGHTING CONTROLS HAVE BEEN COMMISSIONED. INCLUDE CERTIFICATION IN O&M MANUAL.
3. TRANSFORMERS: THE MINIMUM EFFICIENCY OF ALL LOW VOLTAGE DRY–TYPE DISTRIBUTION TRANSFORMERS SHALL BE THE CLASS 1 EFFICIENCY LEVELS FOR DISTRIBUTION TRANSFORMERS SPECIFIED IN TABLE 4–2 OF THE "GUIDE FOR DETERMINING ENERGY EFFICIENCY FOR DISTRIBUTION TRANSFORMERS" PUBLISHED BY THE NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION (NEMA TP–1, LATEST EDITION).

GENERAL NOTES

LIGHTING PLANS

THE FOLLOWING GENERAL NOTES APPLY TO ALL LIGHTING PLAN DRAWINGS

1. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATION OF LUMINAIRES.
2. REFER TO ARCHITECTURAL ELEVATIONS FOR EXACT LOCATIONS OF EXTERIOR LUMINAIRES.
3. COORDINATE THE FINAL LOCATION OF LUMINAIRES IN MECHANICAL ROOMS AND ATTIC SPACES TO AVOID CONFLICTS WITH DUCT WORK, PIPING, AND MECHANICAL EQUIPMENT.
4. ROUTE ALL EXTERIOR LIGHTING CIRCUITS VIA LIGHTING CONTROL PANEL.
5. INSTALL AND WIRE REMOTE BALLASTS AND DRIVERS. REFER TO LUMINAIRE SCHEDULE. MOUNT IN ACCESSIBLE LOCATIONS. SHOW LOCATIONS ON THE AS–BUILT DRAWINGS.

POWER PLANS

THE FOLLOWING GENERAL NOTES APPLY TO ALL POWER PLAN DRAWINGS

1. COORDINATE LOCATIONS OF BAS CONTROL POWER WITH THE CONTROLS CONTRACTOR PRIOR TO ROUGH–IN.
2. PROVIDE DISCONNECT SWITCH OR COMBINATION STARTER FOR EACH PIECE OF EQUIPMENT AS SHOWN ON MECHANICAL EQUIPMENT CONNECTION SCHEDULE.
3. PRIOR TO ROUGH–IN OF ALL EQUIPMENT SPECIFIED BY OTHER DIVISIONS, COORDINATE WITH THE EQUIPMENT MANUFACTURER TO ESTABLISH ALL REQUIREMENTS FOR EACH PIECE OF EQUIPMENT.
4. ALL EXTERIOR RECEPTACLES SHALL BE WP/GFCI.
5. ALL EXTERIOR DISCONNECTS/STARTERS SHALL BE NEMA 3R.
6. ALL HOMERUNS OVER 75' SHALL BE #10 AWG MINIMUM.
7. POWER AND SPECIAL SYSTEMS TO SHARE A COMMON FLOOR BOX.
8. FEEDER ROUTING SHOWN IS APPROXIMATE. COORDINATE WITH MECHANICAL SYSTEMS AND BUILDING STRUCTURE. PROVIDE OFFSETS AS REQUIRED.
9. ALL RECEPTACLES WITHIN 6 FEET OF A SINK SHALL BE GFCI TYPE.
10. COORDINATE WITH THE ELEVATOR SHOP DRAWINGS AND THE ELEVATOR INSPECTOR PRIOR TO ROUGH–IN OF THE ELEVATOR MACHINE ROOM.
11. ALL HEAT TRACE CIRCUITS SHALL BE FED WITH GFPE CIRCUIT BREAKERS.
12. PROVIDE 120–1ϕ HARDWIRED CONNECTION TO EACH TRAP PRIMER FROM NEAREST ADJACENT RECEPTACLE UTILIZING ½" – 3#12. REFER TO MECHANICAL DRAWINGS FOR LOCATIONS. RECORD CIRCUITING ON AS–BUILT PANEL SCHEDULES AND DRAWINGS.

EQUIPMENT CONNECTIONS

1. VERIFY ELECTRICAL REQUIREMENTS WITH MANUFACTURER SHOP DRAWINGS PRIOR TO ROUGH–IN.
2. INSTALL AND WIRE EQUIPMENT PER MANUFACTURER SHOP DRAWINGS.
3. PROVIDE ALL RACEWAYS, WIRING AND ANCILLARY EQUIPMENT AS SHOWN ON MANUFACTURER SHOP DRAWINGS.
4. PROVIDE HARDWIRED CONNECTION, RECEPTACLE OR FUSED DISCONNECT SWITCH AS SHOWN ON MANUFACTURER SHOP DRAWINGS.

SITE PLANS

THE FOLLOWING GENERAL NOTES APPLY TO ALL SITE PLAN DRAWINGS

1. COORDINATE ROUTING OF UNDERGROUND RACEWAYS WITH ALL NEW AND EXISTING UTILITIES. REFER TO CIVIL DRAWINGS.
2. CONTRACT WITH A LOCATOR SERVICE TO MARK THE LOCATION OF ALL EXISTING UNDERGROUND UTILITIES PRIOR TO EXCAVATION.
3. ALL SITE LIGHTING RACEWAYS SHALL BE 1" C. U.O.N.
4. ROUTE ALL SITE LIGHTING CIRCUITS VIA LIGHTING CONTROL PANEL.
5. PROVIDE ALL REQUIRED CUTTING, PATCHING, EXCAVATION, COMPACTION, AND PATCHING FOR INSTALLATION OF UNDERGROUND RACEWAYS AND UTILITY SERVICES.
6. BACKFILL ALL TRENCHES (INCLUDING THOSE FOR UTILITY SERVICES) WITH STRUCTURAL BACKFILL OR GRAVEL BORROW PER WSDOT STANDARDS.
7. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR ALL COORDINATION WITH THE SERVING UTILITY COMPANIES INCLUDING COMPLETING AND SUBMITTING ALL NECESSARY APPLICATIONS FOR SERVICE.
8. CONTRACTOR TO OBTAIN ALL REQUIRED PERMITS AND EASEMENTS.

SYSTEMS PLANS

THE FOLLOWING GENERAL NOTES APPLY TO ALL SPECIAL SYSTEMS PLAN DRAWINGS

1. MINIMUM RACEWAY SIZE SHALL BE 1" FOR TELECOMMUNICATIONS CABLING AND ¾" FOR ALL OTHER SYSTEMS.
2. ALL SPECIAL SYSTEMS WIRING EXCEPT FIRE ALARM SHALL BE RUN UTILIZING OPEN WIRING METHOD ABOVE ACCESSIBLE CEILINGS. PROVIDE METALLIC RACEWAYS FOR WIRING INSTALLED IN WALLS, ABOVE INACCESSIBLE CEILING, WHERE EXPOSED OR WHERE SUBJECT TO PHYSICAL DAMAGE. RACEWAY FILL SHALL NOT EXCEED 40%.
3. FIRE ALARM SYSTEM WIRING SHALL BE RUN IN CONTINUOUS METALLIC RACEWAYS.
4. PROVIDE ADDRESSABLE DUCT DETECTOR AT EACH FIRE/SMOKE DAMPER (FSD) AND SMOKE DAMPER (SD) LOCATION. REFER TO MECHANICAL DRAWINGS FOR LOCATIONS.
5. PROVIDE FA CONNECTION TO FIRE SPRINKLER TAMPER, FLOW, AND PRESSURE SWITCHES. REFER TO MECHANICAL DRAWINGS FOR LOCATIONS.
6. PROVIDE ¾" A–C FIRE RETARDANT PLYWOOD ON ALL FOUR WALLS OF THE MDF AND EACH IDF. MOUNT 8' DIMENSION VERTICAL. PAINT FLAT WHITE.
7. PROVIDE 1" C. FROM EACH FLOOR BOX TO ACCESSIBLE CEILING LOCATION. THIS IS IN ADDITION TO THE RACEWAYS SHOWN ON THE DRAWINGS.
8. ALL EXTERIOR FIRE ALARM AND INTERCOM DEVICES SHALL BE WEATHERPROOF.
9. PROVIDE EXTERIOR FIRE ALARM BELL AND STROBE AT LOCATION DIRECTED BY FIRE MARSHAL.
10. PROVIDE CONNECTION TO FIRE SPRINKLER DOUBLE CHECK VALVE ASSEMBLIES AND PIV'S. REFER TO CIVIL/MECHANICAL DRAWINGS FOR LOCATIONS.
11. STAPLES SHALL NOT BE USED TO SECURE LOW VOLTAGE CABLING.
12. ALL CABLING NOT RUN IN A METALLIC RACEWAY SHALL BE PLENUM RATED.
13. EXTERIOR INTERCOM SPEAKERS SHALL BE WEATHERPROOF AND VANDAL RESISTANT.

ONE-LINE DIAGRAM

1. ALL FEEDERS ARE COPPER WITH THHN/THWN INSULATION.
2. PROVIDE PULL BOXES AS REQUIRED BY THE NEC.
3. SHORT CIRCUIT CURRENTS LESS THAN 10,000 ASYM FOR 208V PANELS AND 14,000 ASYM FOR 480V PANELS ARE NOT SHOWN.
4. THE ONE–LINE DIAGRAM IS DIAGRAMMATIC AND DOES NOT SHOW THE ACTUAL ROUTING OF THE RACEWAYS.
5. FOR TWO SECTION PANELS PROVIDE FULL SIZE FEEDER CONNECTIONS FROM SECTION 1 TO SECTION 2.
6. THE ELECTRICAL DISTRIBUTION SYSTEM SHALL BE FULLY RATED. A SERIES RATED SYSTEM IS NOT ACCEPTABLE.
7. NOT ALL CIRCUIT BREAKERS ARE SHOWN. REFER TO PANEL AND SWITCHBOARD SCHEDULES FOR OTHER LOADS SERVED, AND SPARE CIRCUIT BREAKERS.
8. CONTRACTOR TO PROVIDE COORDINATION STUDY PER SPECIFICATION SECTION 260673. ALL DISTRIBUTION SYSTEM EQUIPMENT SHALL BE RATED FOR THE AVAILABLE FAULT CURRENT AND SHALL BE LABELED WITH THE ARC FLASH HAZARD CATEGORY. ALL NEC 700 AND 701 PORTIONS OF THE DISTRIBUTION SYSTEM SHALL BE SELECTIVELY COORDINATED.
9. SET ALL OVERCURRENT DEVICES PER THE COORDINATION STUDY.
10. TEST ALL GROUND FAULT RELAYS AS REQUIRED BY THE WAC.
11. TRANSFORMER SECONDARY CONDUCTORS SHALL BE NO MORE THAN 10–FEET LONG PER NEC ARTICLE 240.21 (C) 2.
12. ALL CIRCUIT BREAKERS SERVING HID LIGHTING SHALL BE HID RATED.
13. CIRCUIT BREAKERS
    - 13.A. CIRCUIT BREAKERS RATED 800 AMPS OR MORE: PROVIDE ELECTRONIC TRIP UNIT WITH ADJUSTABLE LONG TIME, SHORT TIME AND INSTANTANEOUS (LSI) TRIP FUNCTIONS. PROVIDE GROUND FAULT PROTECTION (G) WHERE CALLED OUT ON THE ONE–LINE.
    - 13.B. CIRCUIT BREAKERS RATED 1200 AMPS OR MORE: PROVIDE TRIP UNIT WITH A MAINTENANCE MODE SWITCH WITH LED INDICATOR LIGHT WHICH OVERRIDES THE TRIP SETTINGS IN ORDER TO MINIMIZE THE ARC FLASH HAZARD DURING MAINTENANCE.
14. PROVIDE GROUNDING AND BONDING OF ELECTRICAL POWER DISTRIBUTION EQUIPMENT PER NEC ARTICLE 250.

LIGHTING CONTROL PANELS (LCP)

1. DOWNSTREAM OF A PANELBOARD WITH AN AIC RATING OF 14,000 ASYM OR LESS: LOCATE LCP A MINIMUM OF 2'–0" FROM THE PANELBOARD.
2. DOWNSTREAM OF A PANELBOARD WITH AN AIC RATING GREATER THAN 14,000 ASYM: LOCATE A LCP A MINIMUM OF 10'–0" FROM THE PANELBOARD.

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3		
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1		

REVIEWED:
PARK ENGINEER _____ DATE _____

All work done in accordance with the City of Seattle Standard Plans and Specifications in effect on the date shown above, and supplemented by Special Provisions.

COFFMAN ENGINEERS
1101 2nd Avenue, Suite 400
Seattle, WA 98101
ph 206.623.0717
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CHRISTOPHER J. HAMMER — STATE OF WASHINGTON — 51344 — REGISTERED PROFESSIONAL ENGINEER
1/11/2021

Seattle Parks & Recreation

GAS WORKS PARK

Gas Works Park - Comfort Station & East Entry/ADA - Permit Set

GENERAL NOTES

DESIGNED	CEI	DATE	January 13, 2021
DRAWN	CEI		
CHECKED	CJB	SHEET ____ OF ____	

ORDINANCE NO.
GW CS - 124590 - 2008 PLF
SDOT Sidewalk – 125207 – REET 1
East Entry/ADA – 125207 - REET I

CONTRACT NO. 2055

SCALE AS NOTED

E0.2

LUMINAIRE SCHEDULE

Type	Description	Lamp Type	Ballast/ Driver	Dimming Type	WATTS/VA	Manufacturer Information	Schedule Notes	Special Submittals
WL.A1	WALL MOUNTED PERFORMANCE LED SCONCE 20.79" x 5.4"x3.6" PERFORMANCE WALLPACK. UL LISTED FOR WET LOCATION	10W LED 3000K 1581 LUMENS	INTEGRAL ELECTRONIC DRIVER	–	10/10	LUMINAIRE "AEL" SERIES		
WL.C1	WALL MOUNTED DIRECT/INDIRECT, VANDAL PROOF LINEAR LUMINAIRE 3.7" x 4.5" x 4' INDUSTRIAL LED STRIP LUMINAIRE WITH 1/8" CLEAR PRISMATIC LENS, ETL LISTED FOR WET LOCATION MOD LUMEN OUTPUT	40W LED 3000K 5102 LUMENS	INTEGRAL DRIVER	–	40/40	KURTZON "VL–A" SERIES		

SCHEDULE GENERAL NOTES:

A. REFERENCE NOTES ON SHEET E0.2.
B. MANUFACTURER INFORMATION BASED ON LUMINAIRE DESIGN SERIES; PART NUMBERS SHOULD BE BASED ON WRITTEN DESCRIPTION.
C. FOR ALL LED LUMINAIRES, THE LUMEN VALUES LISTED IN THE LAMP TYPE COLUMN REPRESENT THE MINIMUM INITIAL OUTPUT REQUIRED.
F. CONTRACTOR TO VERIFY CEILING COMPATIBILITY OF ALL LUMINAIRE TYPES PRIOR TO ORDERING.

SCHEDULE NOTES:

PANEL SCHEDULE

Gas Works Park — NEW PANEL: 1L1 — 161458

Location: MECH CHASE 102 — Feed Through: — Source: UTILTY

Ckt	Load Description	Phase	Amp	Poles	Notes	Rec.	Ltg.	Kit.	Mtr.	Htg.	Clg.	Cont.	Non.	Total
1	HEAT TRACE	A	20	1	1								1.00	1.00
3	RECEPT – EXTERIOR/MECH	B	20	1		0.90								0.90
5	LCP	A	20	1									0.10	0.10
7	EWC	B	20	1	1								0.67	0.67
9	LTG – REST, MECH, STOR, EXT	A	20	1			0.76							0.76
11	SPARE C.B.	B	20	1										
13	ELECTRIC TOILET HEATER	A	20	1	1								0.20	0.20
15	ELECTRIC TOILET HEATER	B	20	1	1								0.20	0.20
17	ELECTRIC TOILET HEATER	A	20	1	1								0.20	0.20
19	ELECTRIC TOILET HEATER	B	20	1	1								0.20	0.20
21	WH–1	A	30	2									2.25	2.25
23	–	B	–	–									2.25	2.25
25	HEAT TRACE	A	20	1	1								1.00	1.00
27	HEAT TRACE	B	20	1	1								1.00	1.00
29	EF–1	A	20	1					0.50					0.50
31	MOTORIZED DAMPER	B	20	1									0.10	0.10
33	SPARE C.B.	A	20	1										
35	SPARE C.B.	B	20	1										
37	SPARE C.B.	A	20	1										
39	SPARE C.B.	B	20	1										
41	SPARE C.B.	A	20	1										
2	DOOR LOCK CONTROLS	A	20	1									0.10	0.10
4	SPARE C.B.	B	20	1										
6	ELECTRIC HAND DRYER	A	20	1									1.50	1.50
8	ELECTRIC HAND DRYER	B	20	1									1.50	1.50
10	ELECTRIC HAND DRYER	A	20	1									1.50	1.50
12	ELECTRIC HAND DRYER	B	20	1									1.50	1.50
14	HWCP–1	A	20	1					0.50					0.50
16	SPARE C.B.	B	20	1										
18	SPARE C.B.	A	20	1										
20	SPARE C.B.	B	20	1										
22	SPARE C.B.	A	20	1										
24	SPARE C.B.	B	20	1										
26	SPARE C.B.	A	20	1										
28	SPARE C.B.	B	20	1										
30	SPARE C.B.	A	20	1										
32	SPARE C.B.	B	20	1										
34	SPARE C.B.	A	20	1										
36	SPARE C.B.	B	20	1										
38	SPARE C.B.	A	20	1										
40	SPARE C.B.	B	20	1										
42	SPARE C.B.	A	20	1										

Rating (Amps):	100	Feed Thru Load:	NONE
Voltage (L–L):	240	Phase A:	
Phase:	1	Phase B:	
Wire:	3		
Bus Material:	Cu	Total Conn.:	
Int. Rating:	10,000A	Load From This Panel:	
		Phase A:	9.61
Main Lugs Only:	–	Phase B:	8.32
Main Ckt Brkr:	100 A		
		Total Conn.:	17.93
Surface Mtd:	X	Total Connected Load:	
Flush Mtd:	–	Phase A:	9.61
		Phase B:	8.32
Bonded Gnd:	X		
Isolated Gnd:	–	Total Conn.:	17.93
200% Neutral:	–	Total Feeder Demand Load:	
Feed Thru:	–	Total:	18.25 KVA
Double Lug:	–	Avg. Amps/Phase:	76 A.
Top Feed:	–		
Bottom Feed	–		

CATEGORY	TOTAL CONN. LOAD (KVA)	DEMAND FACTOR	DEMAND LOAD (KVA)
Receptacles	0.90	50%>10KVA	0.90
Lighting	0.76	125%	0.96
Kitchen Equipment		NEC 220.56	
Motors (Largest)	0.50	125%	0.63
Motors	0.50	100%	0.50
Heating		NEC 220.60	
Cooling		NEC 220.60	
Continuous Load		125%	
Non–Continuous Load	15.27	100%	15.27
TOTAL	17.93		18.25

General Notes:
1. SERVICE ENTRANCE RATED.

Keyed Notes:
1. PROVIDE GFPE CIRCUIT BREAKER.

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ALSO CONTRACT WITH A COMMERCIAL UNDERGROUND UTILITIES LOCATOR SERVICE TO IDENTIFY BELOW-GROUND INFRASTRUCTURE THAT MAY NOT BE LOCATED BY CALL 811 BEFORE-YOU-DIG.

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Seattle Parks & Recreation

GAS WORKS PARK

Gas Works Park - Comfort Station & East Entry/ADA - Permit Set

LUMINAIRE & PANEL SCHEDULES

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CHECKED	CJB	SHEET	____ OF ____
ORDINANCE NO.	GW CS - 124590 - 2008 PLF SDOT Sidewalk – 125207 - REET 1 East Entry/ADA – 125207 - REET I		**E0.3**
CONTRACT NO.	2055		
SCALE	AS NOTED		

Interior Lighting Summary — LGT-SUM

2012 Seattle Energy Code Compliance Forms for Commercial Buildings including R2 & R3 over 3 stories and all R1 — Revised Dec 2013

Project Info			
Compliance forms do not require a password to use. Instructional and calculating cells are write-	Project Address	**Gas Works Park Comfort Stations**	Date 1/11/2021
		Seattle, WA	For DPD Use
		3 - This address line will copy onto other forms	
	Applicant Name:	**Coffman Engineers**	
	Applicant Address:	**1601 Fifth Ave Suite 900, Seattle WA 98101**	
	Applicant Phone:	**2066230717.0**	

Project Description — ☑ New Building ☐ Addition ☐ Alteration ☐ Plans Included

Lighting Compliance Path — ● Lighting Power Density Calculations ○ Total Building Performance *(If Total Building Performance then only LGT-CHK is required.)*

Lighting Power Allowance Method *Selection required to enable LPA forms* — ○ Building Area Method ● Space-By-Space Method

Interior Lighting System Description *Briefly describe lighting system type and features.*

NEW LED SYSTEM

Additions and Change of Space Use (C101.4.3 & C101.4.4)

☐ Addition area or Change of Space Use area complies with all applicable provisions as stand alone project

☐ Addition area is combined with existing building lighting systems to demonstrate compliance with all applicable provisions per C101.4.3

Provide Building Area Method (LTG-INT-BLD) or Space-By-Space Method (LTG-INT-SPACE) Compliance Form. Document maximum allowed and proposed (including existing if applicable) lighting wattage of Addition or Change of Use space. Provide applicable lighting controls per C405.2 and commissioning of lighting controls per C405.13.

Alterations, Renovations and Repairs (C101.4.3.1)

☐ 20% or more of luminaires in space replaced

Provide Building Area Method (LTG-INT-BLD) or Space-By-Space Method (LTG-INT-SPACE) Compliance Form. Document maximum allowed wattage within the lighting retrofit space in Maximum Allowed Wattage table and proposed (including existing) lighting wattage in Proposed Wattage table. Retrofit and non-retrofit spaces shall be documented separately using multiple forms.

☐ Less than 20% of luminaires in space replaced

Provide a separate Space-By-Space Method (LTG-INT-SPACE) Compliance Form for this retrofit area. Document existing total wattage within the lighting retrofit space in cell provided in the Maximum Allowed Wattage table. Document proposed (including existing) lighting wattage in the Proposed Wattage table.

☐ Lamp and/or ballast replacement within existing luminaires only – existing total interior building wattage not increased

☐ New wiring installed to serve added fixtures and/or fixtures relocated to new circuit

Provide applicable manual lighting controls (C405.2.1), occupancy sensors (C405.2.2.2), daylight zone controls (C405.2.2.3), specific application controls (C405.2.3), and commissioning of lighting controls per C405.13

☐ New or moved lighting panel

Provide all applicable lighting controls as noted for New Wiring, automatic time switch controls (C405.2.2.1), and commissioning of lighting controls per C405.13.

☐ Space is reconfigured - luminaires unchanged or moved only

Provide all applicable lighting controls as noted for New Wiring and commissioning of lighting controls per C405.13.

☐ No changes are being made to the interior lighting and space use not changed.

Interior Lighting Summary - Space-By-Space — LTG-INT-SPACE

2012 Seattle Energy Code Compliance Forms for Commercial Buildings including R2 & R3 over 3 stories and all R1 — Revised Dec 2013

Project Address: **Gas Works Park Comfort Stations** — Date: 1/11/2021 — For DPD Use

Lighting Alterations, Renovations & Building Additions

○ Less than 20% of fixtures replaced ○ 20% or more of fixtures replaced ● Stand alone bldg. addition ○ Addition combined

Notes:
a. Lighting fixtures in a building addition may comply as a stand alone project, or they may be combined with the overall existing bldg lighting to demonstrate compliance. Refer to C101.4.3.
b. For retrofits and building additions, provide Space Types and gross interior areas in the Maximum Allowed Lighting table. If a building addition will comply as combined with the overall existing building, include all applicable existing Space Types and gross interior areas.
c. Document new fixtures and all existing to remain fixtures in the Proposed Lighting table.
d. If less than 20% of existing fixtures will be replaced, provide total existing lighting wattage in the Proposed Lighting table.

Maximum Allowed Lighting Wattage *Enter Allowed Lighting table.*

Location (plan #, room #, or ALL)	Space Type*	Allowed Watts per ft²	Gross Interior Area in ft²	Watts Allowed (watts/ft² x area)
	Restroom	0.98	370	363
	Storage	0.63	181	114
	Atrium** Enter Height			
	Existing Lighting Enter Exist. Watts			
	Retail Display Allowance from LGT-INT-DISPLAY			
			Area	Allowed Watts
		Total	551	477

* *Select Table C405.5.2(2) category from drop down menu.*
** *For atriums, indicate height. Allowed wattage for first 40 feet is 0.03 W/ft. ht., above 40 feet is 0.02 W/ft. ht.*

Proposed Lighting Wattage

Location (plan #, room #, or ALL)	Fixture Description***	Number of Fixtures	Watts/ Fixture	Watts Proposed
	WL.C1	7	40	280
	Retail Display Lighting from LGT-INT-DISPLAY			
	Total Proposed Watts may not exceed Total Allowed Watts for Interior Lighting		Total Proposed Watts	280

**** Include existing to remain lighting fixtures and exempt lighting equipment per notes below.*

Notes:
1. Include ALL proposed lighting fixtures.
2. For proposed Fixture Description, indicate fixture type, lamp type (e.g. T-8), number of lamps in the fixture, and ballast type (if included). For track lighting, list the length of the track (in feet) in addition to the fixture, lamp, and ballast information.
3. For proposed Watts/Fixture, use manufacturer's listed maximum input wattage of the fixture (not simply the lamp wattage) and other criteria as specified in Section C405.5.1. For line voltage track lighting, list the greater of actual luminaire wattage or length of track multiplied by 50, or as applicable, the wattage of current limiting devices of the transformer. For low voltage track lighting list the transformer rated wattage.
4. For lighting equipment eligible for exemption per C405.5.1, note exception number and leave Watts/Fixture blank.
5. Group luminaires in the proposed lighting table in the same manner as new fixtures. Identify as existing in description.

Interior Lighting Power Allowance — **COMPLIES**

Exterior Lighting Summary — LTG-EXT

2012 Seattle Energy Code Compliance Forms for Commercial Buildings including R2 & R3 over 3 stories and all R1 — Revised Dec 2013

Project Info			
	Project Address:	**Gas Works Park Comfort Stations**	Date 1/11/2021
		Seattle, WA	For DPD Use
		Fill this line out on LGT-SUM	
	Applicant Name:	**Coffman Engineers**	
	Applicant Addr:	**1601 Fifth Ave Suite 900, Seattle WA 98101**	
	Applicant Phone:	**2066230717**	

Project Description — ☑ New Building ☐ Addition ☐ Alteration ☐ Plans Included

Lighting Zone *As specified by jurisdiction. Zone selection required to enable LTG-EXT form.* — ○ Zone 1 ○ Zone 2 ● Zone 3

Compliance Option — ● Lighting Power Density Calculations ○ Total Building Performance

Building Grounds *Applies to luminaires > 100 Watts* — ☐ Efficacy > 60 lumens/W ☐ Controlled by motion sensor ☐ Exemption (list)

Exterior Lighting Alterations — ☐ No changes are being made to the existing exterior lighting ☑ New wiring installed to serve added fixtures and/or fixtures relocated to new circuit *Provide applicable exterior lighting controls per C405.2.4 and commissioning per*

Tradable Maximum Allowed Lighting Wattage

Base Site Allowance: 750

Tradable Surfaces	Surface Description	Allowed Watts per ft² or per lf	Area (ft²), perimeter (lf) or # of items	Allowed Watts x ft² (or x lf)
Grounds Walkways <10 wide		0.8 W/LF	101	81
			Total Allowed Tradable Watts:	81

Tradable Proposed Lighting Wattage *(Use mfgr listed maximum input wattage for luminaire.)*

Tradable Surface	Fixture Description	Number of Fixtures	Watts/ Fixture	Watts Proposed
Grounds Walkways <10 wide	WL.A1	4	10	40
			Total Proposed Tradable Watts:	40

Total proposed tradable watts may not exceed the sum of total allowed tradable watts plus the base site allowance. Any base site allowance not needed to make tradable watts comply can be applied to individual non-tradable

Non-Tradable Maximum Allowed Lighting Wattage

Base Site Allowance Remaining: 750

Non-Tradable Surfaces	Surface Description	Allowed Watts per ft² or per lf	Area (ft²), perimeter (lf) or # of items	Allowed Watts x ft² (or x lf)

Non-Tradable Proposed Lighting Wattage

Non-Tradable Surface	Fixture Description	Number of Fixtures	Watts/ Fixture	Watts Proposed

Non-tradable proposed watts may not exceed allowed watts for any individual surface unless the total excess watts for all non-tradable surfaces are less than the remaining site allowance.

Total excess Non-Tradable watts: 0

Site Allowance Balance: 750

Exterior Lighting — **COMPLIES WITH SITE ALLOWANCE**

Lighting, Motor, and Transformer Permit Documents Checklist — LTG-CHK

2012 Seattle Energy Code Compliance Forms for Commercial Buildings including R2 & R3 over 3 stories and all R1 — Revised Dec 2013

Project Address: **Gas Works Park Comfort Stations** — Date: 1/11/2021

The following information is necessary to check a permit application for compliance with the lighting, motor, and transformer requirements in the Seattle Energy Code, Commercial Provisions.

Applicability (yes,no,na)	Code Section	Component	Compliance information required in permit documents	Location in Documents	DPD Notes
LIGHTING CONTROLS (Section C405.2)					
Yes	C405.2.1.1 C405.2.1.2	Manual interior lighting controls	Indicate on plans the manual control type & locations served; Indicate of plans the 50% lighting load reduction method provided or identify exception taken		
Yes	C405.2.2.1	Automatic time switch controls and override switching	Indicate lighting system automatic shut-off capability - identify lighting zone areas served on plans; Indicate locations of override switches on plans and the areas served, include area sq. ft.; Note 2500 sq. ft. max area on one override switch; Indicate locations where automatic shutoff is provided by other methods (occupancy sensor, daylight controls, etc)		
Yes	C405.2.2.2	Occupancy sensors	Indicate on plans the locations served by occupancy sensors; Note 15-minute setting		
NA	C405.2.2.3	Daylight zones - Vertical fenestration and skylights	Indicate vertical fenestration primary and secondary daylight zone areas on plans, include sq. ft. & lineal feet of facade; Indicate skylight daylight zone areas on plans, include sq. ft. & lineal feet of façade		
NA	C405.2.2.3.2	Daylight zone controls	Indicate on plans the locations served by daylight zone controls; Indicate in plans the lighting load reduction (dimming) method - stepped or continuous dimming		
NA	C405.2.3	Specific application lighting controls - General	Indicate on plans the locations served by specific application lighting controls		
NA	C405.2.3 - Items 1&2	Display and accent lighting	Indicate lighting control method for display and accent lighting, and display case lighting; Indicate these fixtures are controlled independently from both general area lighting and other lighting applications within the same space		
NA	C405.2.3 - Item 3	Hotel/motel guest rooms	Provide a lighting control device at each guest room entry for all permanently installed fixtures in guest room; Indicated whether lighting control is manual or automatic		
NA	C405.2.3 - Item 4	Supplemental task lighting	Provide automatic shut-off vacancy controls for supplemental task lighting, including under-shelf or under-cabinet lighting		
NA	C405.2.3 - Item 5	Lighting for non-visual applications	Identify eligible non-visual applications and method of lighting control; Indicate these fixtures are controlled independently from both general area lighting and other lighting applications within the same space		
NA	C405.2.3 - Item 6	Lighting equipment for sale or demonstration	Indicate lighting control method for lighting equipment for sale or demonstration; Indicate these fixtures are controlled independently from both general area lighting and other lighting applications within the same space		
Yes	C405.2.3 - Item 7	Means of egress lighting	If egress lighting power density is greater than 0.05W/ft², indicate method of automatic shut-off during unoccupied periods; Identify on plans the egress fixtures that function as both normal and emergency means of egress illumination		
NA	C405.2.3 - Item 8	Stair lighting	Indicate occupancy sensor lighting power reduction control		
NA	C405.2.3 - Item 9	Parking garage lighting	Indicate occupancy sensor lighting power reduction control and size of area controlled		
NA	C405.10 C405.11	Cooler and freezer lighting	Provide vacancy device or timer to turn off fixtures within 15 minutes of unoccupancy for cooler and freezer lighting fixtures with lamp efficacy less than 40 lumens per watt		
Yes	C405.2.4	Exterior lighting controls	Indicate on exterior lighting plans the automatic lighting control method and locations served. Indicate required information separately for façade lighting and other exterior lighting		
NA	C405.6.1	Exterior building grounds lighting controls	Provide motion sensor controls for building grounds fixtures rated at greater than 100 watts with lamp efficacy less than 60 lumens, or identify exception taken		
			Identify applicable commissioning documentation requirements per Section C408 or eligibility for exception;		

Lighting, Motor, and Transformer Permit Documents Checklist — LTG-CHK

2012 Seattle Energy Code Compliance Forms for Commercial Buildings including R2 & R3 over 3 stories and all R1 — Revised Dec 2013

Project Address: **Gas Works Park Comfort Stations** — Date: 1/11/2021

The following information is necessary to check a permit application for compliance with the lighting, motor, and transformer requirements in the Seattle Energy Code, Commercial Provisions.

Applicability (yes,no,na)	Code Section	Component	Compliance information required in permit documents	Location in Documents	DPD Notes
Yes	C408.3	Lighting system functional testing	Provide written procedures for functional testing of all automatic controls and describe the expected system response; Identify in construction documents the party responsible for functional testing of automatic lighting controls		
INTERIOR LIGHTING POWER & EFFICACY (Sections C405.5, C405.10, C405.11)					
Yes	C405.5.1 C405.5.1.1 C405.5.1.2 C405.5.1.3 C405.5.1.4	Total connected interior lighting power	Provide fixture schedule with fixture types, lamps, ballasts, and rated watts per fixture; Identify spaces eligible for lighting power exemption on plans and in compliance forms; Identify lighting equipment eligible for exemption in fixture schedule and in compliance forms; Indicate that exempt lighting equipment is in addition to general area lighting and is controlled independently		
NA	C405.4	Exit signs	Provide exit sign types and rated watts per fixture in fixture schedule (maximum 5 watts per fixture)		
NA	C405.10 C405.11	Cooler and freezer lighting	For lighting in walk-in coolers and freezers, and refrigerated warehouse coolers and freezers, provide rated lamp efficacy (in lumens per watt) in fixture schedule		
		Lighting Power Calculation - Indicate compliance path taken			
NA	C405.5.2	Building Area Method	Complete required compliance forms – proposed wattage per building area does not exceed maximum allowed wattage per building area. Identify locations of building areas on plans		
Yes	C405.5.2	Space-By-Space Method	Complete required compliance forms – total proposed wattage does not exceed maximum allowed wattage. Identify locations of space types on plans, including retail display areas as applicable		
EXTERIOR LIGHTING POWER & EFFICACY (Section C405.6)					
Yes	C405.6.2	Total connected exterior lighting power	Provide fixture schedule with fixture types, lamps, ballasts, and rated watts per fixture; Identify exterior applications eligible for lighting power exemption on plans and in compliance forms; Indicate that exempt exterior lighting is controlled independently from non-exempt exterior lighting		
Yes	Table C405.6.2(1)	Exterior lighting zone	Indicate building exterior lighting zone as defined by the AHJ		
Yes	C405.6.1	Exterior building grounds lighting	For building grounds fixtures rated at greater than 100 watts, provide rated lamp efficacy (in lumens per watt) in fixture schedule		
Yes	C405.6.2	Exterior lighting power calculations	Complete required compliance form – proposed wattage for exterior lighting plus base site allowed does not exceed maximum allowed		
NA	C405.6.3	Full cutoff luminaires	Indicate full cutoff luminaires for outdoor fixtures taller than 15 feet above ground		
MOTORS & TRANSFORMERS (Sections C405.8, C405.9)					
Yes	C405.8	Electric Motors	For motors not part of an HVAC system, provide electric motor schedule on electrical plans with hp, rpm, and rated efficiency		
Yes	C405.9	Transformers	Provide distribution transformer schedule on electrical plans with transformer size and efficiency		
NA	C405.14	Controlled receptacles	Indicate that at least 50% of office and classroom receptacles are controlled by occupancy sensor or time clock. Indicate A20\location and area served by each override switch		

If "no" is selected for any question, provide explanation:

Lighting, Motor, and Transformer Permit Documents Checklist — LTG-CHK

2012 Seattle Energy Code Compliance Forms for Commercial Buildings including R2 & R3 over 3 stories and all R1 — Revised Dec 2013

Project Address: **Gas Works Park Comfort Stations** — Date: 1/11/2021

The following information is necessary to check a permit application for compliance with the lighting, motor, and transformer requirements in the Seattle Energy Code, Commercial Provisions.

Applicability (yes,no,na)	Code Section	Component	Compliance information required in permit documents	Location in Documents	DPD Notes

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1/11/2021

Seattle Parks & Recreation

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Gas Works Park - Comfort Station & East Entry/ADA - Permit Set

NREC

DESIGNED	CEI	DATE	January 13, 2021
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East Entry/ADA – 125207 - REET I

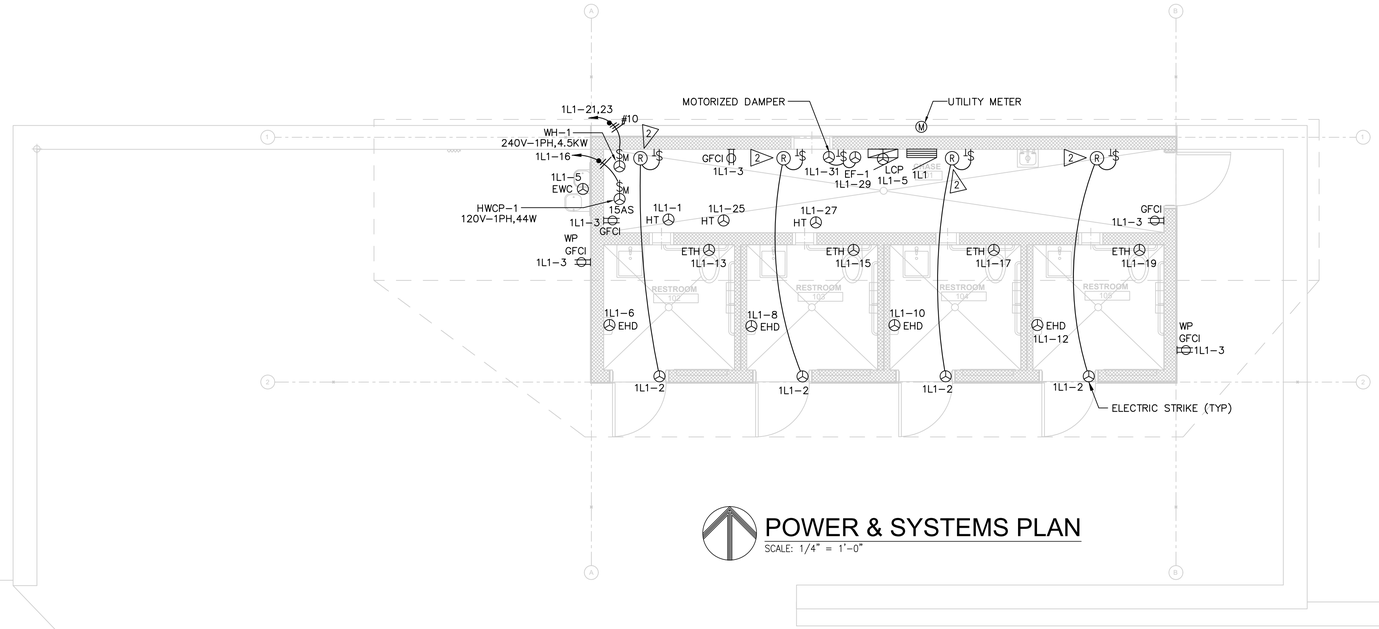
CONTRACT NO. 2055

SCALE AS NOTED

E0.4

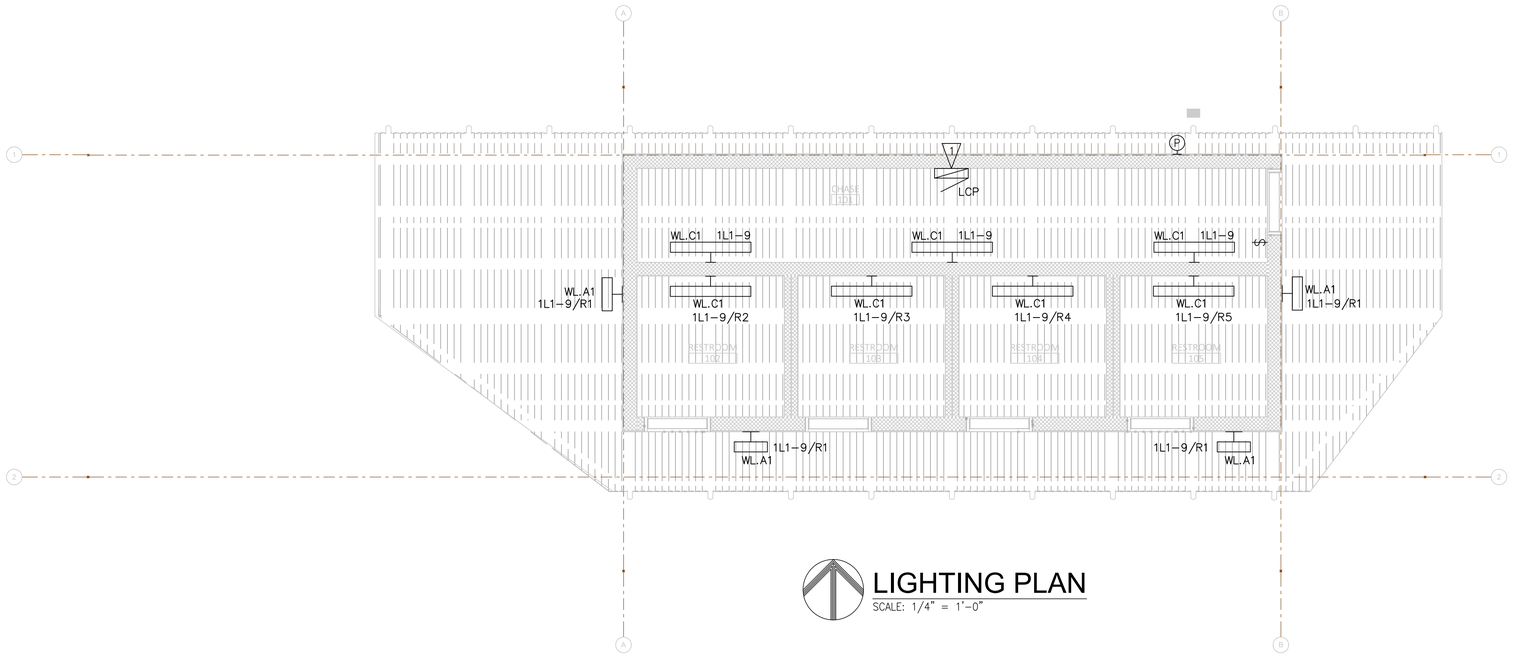
FLAG NOTES

1. PROVIDE 8-RELAY LIGHTING CONTROL PANEL AND EXTERIOR LOW VOLTAGE PHOTOCELL. WATTSTOPPER LP8 OR APPROVED EQUAL.
2. PROVIDE TIMER SWITCH AND RELAY RATED FOR 120V. PROVIDE CONNECTION TO ELECTRIC STRIKE FOR AUTO CONTROL OF DOOR LOCK.



POWER & SYSTEMS PLAN

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



LIGHTING PLAN

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

>>>>CAUTION - CALL 811<<<<
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BEFORE YOU DIG!
WWW.CALL811.COM

ALSO CONTRACT WITH A COMMERCIAL UNDERGROUND UTILITIES LOCATOR SERVICE TO IDENTIFY BELOW-GROUND INFRASTRUCTURE THAT MAY NOT BE LOCATED BY CALL 811 BEFORE-YOU-DIG.

NO.	REVISION - AS BUILT	DATE
3		
2		
1		

REVIEWED: _____ PARK ENGINEER _____ DATE

All work done in accordance with the City of Seattle Standard Plans and Specifications in effect on the date shown above, and supplemented by Special Provisions.

COFFMAN ENGINEERS
1101 2nd Avenue, Suite 400
Seattle, WA 98101
ph 206.623.0717
www.coffman.com

CHRISTOPHER J. BLAKE — STATE OF WASHINGTON — 61344 — REGISTERED PROFESSIONAL ENGINEER
1/11/2021

Seattle Parks & Recreation

GAS WORKS PARK

Gas Works Park - Comfort Station & East Entry/ADA - Permit Set

LIGHTING, POWER, & SYSTEMS PLAN

DESIGNED	CEI	DATE	January 13, 2021
DRAWN	CEI		
CHECKED	CJB	SHEET	____ OF ____
ORDINANCE NO.	GW CS - 124590 - 2008 PLF SDOT Sidewalk – 125207 – REET 1 East Entry/ADA – 125207 - REET I	**E1.1**	
CONTRACT NO.	2055		
SCALE	AS NOTED		

PANEL DESIGNATION

EXAMPLE DESIGNATION: 1L1

BUILDING FLOOR
1 = FIRST LEVEL

SUFFIX
1 = FIRST IN SEQUENCE
2 = SECOND IN SEQUENCE

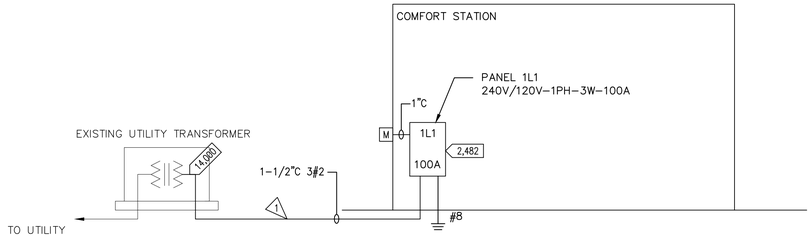
VOLTAGE
L = 120/240V

GENERAL NOTES

1. REFER TO SHEET E0.2.

FLAG NOTES

1 REMOVE EXISTING SERVICE LATERAL CONDUCTOR. PROVIDE NEW LATERAL CONDUCTOR FROM UTILITY TRANSFORMER TO THE MAIN SERVICE PANEL.



1 / E2.1 ONE-LINE DIAGRAM
SCALE: NONE

>>>>CAUTION - CALL 811<<<<
UTILITY NOTIFICATION CENTER
BEFORE YOU DIG!
WWW.CALL811.COM

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Gas Works Park - Comfort Station & East Entry/ADA - Permit Set

ONE-LINE DIAGRAM

DESIGNED CEI	DATE January 13, 2021
DRAWN CEI	
CHECKED CJB	SHEET ____ OF ____
ORDINANCE NO. GW CS - 124590 - 2008 PLF; SDOT Sidewalk – 125207 – REET 1; East Entry/ADA – 125207 - REET I	**E2.1**
CONTRACT NO. 2055	
SCALE AS NOTED	