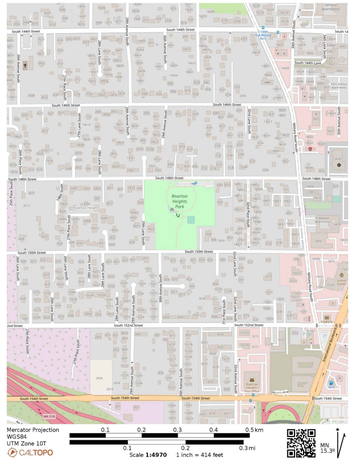
RIVERTON HEIGHTS PARK IMPROVEMENTS

3011 S 148TH ST
SEATAC, WA 98168

CITY OF SEATAC
PARKS AND RECREATION



VICINITY MAP



SITE MAP

LEGAL DESCRIPTION

TAX PARCEL NO. 3923400030
ADRESS: 3011 S. 148TH STREET, SEATAC, WA 98168

THE WEST 1/2 OF LOT 1, ALL OF LOT 2 AND THE EAST 1/2 OF LOT 3, BLOCK 1, KNOX'S FIVE ACRE GARDEN TRACTS ACCORDING TO THE PLAT THEREOF RECORDED IN VOLUME 7 OF PLATS, PAGE 38, IN KING COUNTY, WASHINGTON: EXCEPT THE SOUTH 200 FEET OF LOT 1; ALSO EXCEPT THE SOUTH 242 FEET OF THE WEST 102.93 FEET OF THE EAST 1/2 OF LOT 3; ALSO EXCEPT THE NORTH 30 FEET CONVEYED TO KING COUNTY FOR ROAD PURPOSES BY INSTRUMENTS RECORDED UNDER RECORDING NUMBERS 2969688, 2969695, AND 2969696

OWNER

CITY OF SEATAC
4800 S. 188TH ST.
SEATAC, WA 98188

CONTACT:
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(564) 208-1926

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BID SET

STATE OF WASHINGTON · BRICE MARYMAN · NO. 1147 EXP. 7/16/2027 · LANDSCAPE ARCHITECT

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CHECKED BY	BM, SM
DATE	OCTOBER 28, 2026

SHEET NAME

COVER SHEET

SHEET #

L0.1

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PRINTED ON: 2026-08-27
MxM LANDSCAPE ARCHITECTURE

GENERAL NOTES

1. ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH THE CONTRACT PLANS AND SPECIFICATIONS, CITY OF SEATAC STANDARD PLANS AND PLAN NOTES, AND ANY CONDITIONS OF APPROVAL. IT SHALL BE THE SOLE RESPONSIBILITY OF THE BIDDER TO NOTIFY CITY OF SEATAC REGARDING ANY ERROR, OMISSION, OR VARIATION FROM THE ABOVE REQUIREMENTS FOUND IN THESE PLANS OR ACCOMPANYING SPECIFICATIONS.

2. ALL CONSTRUCTION IS SUBJECT TO DAILY INSPECTION BY THE CITY OF SEATAC. FOR ALL REQUIRED SPECIAL INSPECTIONS, THE CONTRACTOR SHALL PROVIDE AT LEAST 24–HOUR PRIOR NOTIFICATION TD THE CITY'S CONSTRUCTION INSPECTOR TO PERMIT INSPECTIONS DURING THE NORMAL WORK DAY. WORK NOT READY FOR A REQUESTED SPECIAL INSPECTION UPON THE ARRIVAL OF THE SPECIAL INSPECTOR MUST BE RESCHEDULED FOR INSPECTION AND A RE–INSPECTION FEE MAY BE IMPOSED.

3. BEFORE ISSUANCE OF PERMITS, CONSTRUCTION OR ANY ON–SITE ACTIVITY, A PRECONSTRUCTION MEETING IS REQUIRED BETWEEN THE CITY OF SEATAC CONSTRUCTION MANAGER AND THE CONTRACTOR'S CONSTRUCTION REPRESENTATIVE. REQUEST A PRECONSTRUCTION MEETING BY CONTACTING CITY OF SEATAC PARK PROJECT MANAGER. SPECIALTY PRE–ACTIVITY MEETINGS MAY ALSO BE REQUIRED. SEE CONTRACT DOCUMENTS.

4. BEFORE ANY ON–SITE MOBILIZATION OR WORK MAY BEGIN, CONTRACTOR MUST HAVE AN APPROVED SPILL PREVENTION CONTROL AND COUNTERMEASURES (SPCC) PLAN AND AN APPROVED STORM WATER POLLUTION PREVENTION (SWPP) PLAN. SUBMITTAL OF THESE PLANS FDR APPROVAL PRIOR TO THE PRECONSTRUCTION MEETING IS REQUIRED. SEE SPECIFICATIONS.

5. CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE CITY'S PROJECT MANAGER AND SHALL BE RESOLVED PRIOR TO PROCEEDING WITH AFFECTED CONSTRUCTION.

6. THE CONTRACTOR SHALL KEEP A SET OF PLANS ON SITE AT ALL TIMES FDR RECORDING "AS–BUILT" INFORMATION. SEE PROJECT SPECIFICATION FOR RECORD DRAWINGS REQUIREMENTS.

7. THE LOCATION OF UTILITIES IS APPROXIMATE. THE CONTRACTOR SHALL BE RESPONSIBLE FDR VERIFYING THE LOCATION OF EXISTING UTILITIES PRIOR TO CONSTRUCTION. UTILITIES SHOWN HERE ARE FOR THE PURPOSE OF ASSISTING THE CONTRACTOR IN LOCATING SAID UTILITIES. THE CONTRACTOR SHALL CONTACT THE UNDERGROUND UTILITIES LOCATION CENTER (1–800–424–5555 OR 811) 48 HOURS MINIMUM PRIOR TO THE BEGINNING OF CONSTRUCTION AND OBTAIN ON–SITE UTILITIES LOCATIONS. CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER AND SHALL BE RESOLVED AS SET FORTH IN THE SPECIFICATIONS PRIOR TO PROCEEDING WITH AFFECTED CONSTRUCTION.

8. SEE SPECIFICATIONS FOR A NON–INCLUSIVE LIST OF PERMITS KNOWN TO BE REQUIRED FOR THIS PROJECT. PERMITS OBTAINED AND PAID FOR BY CITY OF SEATAC WILL BE TRANSFERRED TO THE CONTRACTOR AND PICKED UP BY THEM PRIOR TO START OF CONSTRUCTION. THE CONTRACTOR WILL BE REQUIRED TO SHOW A CONTRACTOR'S LICENSE AND A CITY OF SEATAC BUSINESS LICENSE BEFORE PERMITS WILL BE ISSUED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL OTHER APPLICABLE PERMITS AND EASEMENTS AS MAY BE REQUIRED BY CITY OF SEATAC OR OTHER PERMITTING AGENCIES.

9. CONSTRUCTION NOISE SHALL BE LIMITED AS PER SEATAC MUNICIPAL CODE FROM 7AM TO 6PM (M–F). WEEKEND WORK PROHIBITED UNLESS APPROVED.

10. DATUM SHALL BE CITY OF SEATAC (NAVD88) UNLESS OTHERWISE APPROVED BY THE DIRECTOR OF PUBLIC WORKS. THE BENCHMARK SHALL TIE TO THE CITY OF SEATAC BENCHMARK LIST.

11. APPROVAL MUST BE OBTAINED FROM THE DEPARTMENT OF PUBLIC WORKS BEFORE ANY STRUCTURES, FILL OR OBSTRUCTIONS, INCLUDING FENCES, ARE LOCATED WITHIN ANY DRAINAGE EASEMENT, FLOOD PLAIN EASEMENT OR NATIVE GROWTH PROTECTION AREA. STRUCTURES SHALL NOT BE PERMITTED WITHIN 15 FEET OF THE TOP OF BANK OF ANY CHANNEL OR POND.

12. WHERE CONSTRUCTION IS CARRIED OUT IN AREAS NOT SPECIFIED ON THE PLANS AND WHICH HAVE EXISTING IMPROVEMENTS, CONTRACTOR SHALL PROVIDE A COPY OF ALL PERMITS, SHOWING APPROVAL FOR SUCH WORK PRIOR TO STARTING. APPROPRIATE MEASURES SHALL BE TAKEN TO RESTORE SUCH AREAS TD CONDITIONS EXISTING PRIOR TO CONSTRUCTION OR AS REQUIRED BY THE CITY OF SEATAC DEPARTMENT OF PUBLIC WORKS.

13. OFF SITE PREMISE STAGING OR STORAGE AREAS SHALL REQUIRE A WRITTEN RELEASE FROM THE AFFECTED PROPERTY OWNER. IN ADDITION, A RELEASE FROM THE CITY SHALL BE REQUIRED DESIGNATING THAT DAMAGE TD CITY PROPERTY IS NEGLIGIBLE OR NON–EXISTENT.

14. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS FOR THE SAFETY OF EMPLOYEES ON THE PROJECT AND SHALL COMPLY WITH ALL APPLICABLE PROVISIONS OF FEDERAL, STATE, AND MUNICIPAL SAFETY LAWS AND BUILDING CODES. THE CONTRACTOR SHALL ERECT AND PROPERLY MAINTAIN, AT ALL TIMES, AS REQUIRED BY THE CONDITIONS AND PROGRESS OF THE WORK, ALL NECESSARY SAFEGUARDS FOR PROTECTION OF WORKERS AND THE PUBLIC; SHALL POST DANGER SIGNS WARNING AGAINST KNOWN OR UNUSUAL HAZARDS; AND SHALL DESIGNATE A RESPONSIBLE MEMBER OF THEIR ORGANIZATION ON THE CONSTRUCTION SITE WHOSE DUTY SHALL BE THE PREVENTION OF ACCIDENTS.

15. THE CONTRACTOR SHALL PROVIDE TRAFFIC CONTROL SIGNS AND DEVICES AS SET FORTH ON THE TRAFFIC CONTROL PLANS PROVIDED WITH THE CONTRACT DRAWINGS OR SUBMIT ALTERNATE TRAFFIC CONTROL PLANS IN ACCORDANCE WITH THE SPECIFICATIONS. ALL TRAFFIC MARKINGS AND SIGNAGE TO BE IN ACCORDANCE WITH THE CURRENT MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AND CITY OF SEATAC CURRENT STANDARDS. TRAFFIC CONTROL SIGNS AND DEVICES AS SET FORTH ON APPROVED TRAFFIC CONTROL PLANS ARE TO BE INSTALLED BY THE CONTRACTOR PRIOR TO ANY CONSTRUCTION WITHIN THE PROJECT SITE.

TREE PROTECTION CONSTRUCTION NOTES

1. FENCING SHALL BE ESTABLISHED AT THE DRIPLINE OF PROTECTED TREES OR AT THE LOCATION INDICATED ON THE CONSTRUCTION DRAWINGS IF WORK WILL BE WITHIN THE CRZ.

2. NO CONSTRUCTION ACCESS OR EQUIPMENT STORAGE SHALL BE ALLOWED IN THE TREE PROTECTION AREA.

3. IF WORK WITH HEAVY EQUIPMENT IS OCCURRING WITHIN TWO FEET OF PROTECTED TREES, TRUNK PROTECTION SHALL BE INSTALLED WHICH WILL CONSIST OF BOARDS PLACED AROUND THE TREE AND SECURED WITH ROPE OR WIRE.

4. PRIOR TO CONSTRUCTION, IDENTIFY AND MARK WITH SPRAY PAINT ON PERVIOUS AND IMPERVIOUS SURFACES ALL ROOT HEAVE AREAS PRIOR TO CONSTRUCTION. ONLY HAND REMOVAL SHALL BE ALLOWED WITHIN TWO FEET IN ALL DIRECTIONS FROM LARGE SHALLOW ROOTS TO BE RETAINED IN THE WORK AREA.

5. INSTALL GEOGRIDS, FILTER FABRIC, MATTING, WOOD CHIPS AND OR MULCH WHERE EQUIPMENT WILL OPERATE WITHIN THE CRZ. IN GENERAL, IT IS THE INTENT OF THIS SPECIFICATION TO PROVIDE THE FOLLOWING LEVELS OF PROTECTION:

   A. ALL AREAS ADJACENT TO CONSTRUCTION ACTIVITY THAT INCLUDES CRITICAL ROOT ZONES OF RETAINED TREE FOOT TRAFFIC IS ANTICIPATED TO BE UNAVOIDABLE IN CRITICAL ROOT ZONES PROVIDE A LAYER OF FILTER FABRIC UNDER 5 INCHES OF WOOD CHIPS OR MULCH.

   B. AREAS WHERE OCCASIONAL LIGHT VEHICLE TRAFFIC IS ANTICIPATED TO BE UNAVOIDABLE IN CRITICAL ROOT ZONES PROVIDE A LAYER OF GEOGRIDS UNDER 8 INCHES OF WOOD CHIPS OR MULCH.

   C. AREAS WHERE HEAVY VEHICLE TRAFFIC IS UNAVOIDABLE PROVIDE A LAYER OF GEOGRIDS UNDER 12 INCHES OF WOOD CHIPS OR MULCH AND A LAYER OF MATTING OVER THE WOOD CHIPS OR MULCH.

6. FOR CONSTRUCTION ACTIVITY THAT IS UNAVOIDABLE IN THE CRITICAL ROOT ZONES OF SUBJECT TREES, THE FOLLOWING REMEDIAL ACTIONS SHALL INCLUDE BUT SHALL NOT BE LIMITED TO THE FOLLOWING:

   A. MECHANIZED EQUIPMENT USED FOR ASPHALT REMOVAL SHALL ALWAYS BE STAGED ON HARD SURFACES OR ON WEIGHT DISPERSING MATS. NO VEHICLES SHALL TRAVEL ON UNPROTECTED CRITICAL ROOT ZONES. ONCE ASPHALT HAS BEEN REMOVED, THE AREA SHALL BE SUBJECT TO PROTECTIVE REQUIREMENTS OF SUBSECTION 1. ABOVE.

   B. HAND REMOVE ASPHALT NEAR LARGE ROOTS ONLY. PRIOR TO CONSTRUCTION, IDENTIFY AND MARK WITH SPRAY PAINT ALL ROOT HEAVE AREAS PRIOR TO CONSTRUCTION. ONLY HAND REMOVAL SHOULD BE ALLOWED WITHIN TWO FEET IN ALL DIRECTIONS FROM SHALLOW ROOT SYSTEMS.

   C. IN GENERAL, DEMOLITION AND EXCAVATION WITHIN THE DRIP LINE OF SUBJECT TREES SHALL PROCEED WITH EXTREME CARE, EITHER USING HAND TOOLS, OR WITH OTHER LOW–IMPACT EQUIPMENT THAT WILL NOT CAUSE DAMAGE TO THE TREE, ROOTS OR SOIL. TRACKED EQUIPMENT (IF NEEDED) SHALL BE STAGED WITH TRACKS OUTSIDE OF ROOT ZONES OR WITH TRACKS ON THE EXISTING HARD SURFACING; THE USE OF A BUCKET AND THUMB IN THE ROOT ZONE IS ALLOWED FOR DEMOLITION AND REMOVAL OF CONCRETE WITH AN OBSERVER HELPING TO GUIDE THE WORK.

   D. EXCAVATED SOIL, ASPHALT AND CONCRETE SHALL BE STOCKPILED OUTSIDE OF THE CRITICAL ROOT ZONES OF TREES.

   E. WHEN ENCOUNTERED, EXPOSED ROOTS 2 INCHES AND LARGER IN DIAMETER SHALL BE WORKED AROUND IN A MANNER THAT DOES NOT BREAK THE OUTER LAYER OF THE ROOT SURFACE (BARK). EXPOSED ROOTS SHALL BE COVERED IN WOOD CHIPS (OR MULCH) AND SHALL ALWAYS BE MAINTAINED ABOVE PERMANENT WILT POINT. ROOTS 2 INCH AND LARGER IN DIAMETER AND THAT CONFLICT WITH THE PROJECT SHALL ONLY BE CUT BACK TO THE MINIMUM NECESSARY. WORK SHALL BE PERFORMED AND SCHEDULED TO CLOSE EXCAVATIONS AS QUICKLY AS POSSIBLE OVER EXPOSED ROOTS.

   F. ROOTS LARGER THAN 2 INCHES IN DIAMETER SHALL BE CUT USING A SHARP SAW. LARGE ROOTS SHALL NOT BE CUT WITH HYDRAULICALLY DRIVEN EQUIPMENT (EXCAVATOR BUCKETS, ETC.) AS THEY TYPICALLY "RIP" OR "TEAR" ROOTS BEYOND PROTECTION LIMITS AND DAMAGE THE ROOT ZONE BEYOND THE NECESSARY AMOUNT.

   G. TREE BRANCHES THAT INTERFERE WITH THE CONSTRUCTION MAY BE TIED BACK OR PRUNED TO CLEAR ONLY TO THE POINT NECESSARY TO COMPLETE THE WORK. OTHER BRANCHES SHALL ONLY BE REMOVED WHEN SPECIFICALLY INDICATED BY THE OWNER'S REPRESENTATIVE. TYING BACK OR TRIMMING OF ALL BRANCHES AND THE CUTTING OF ROOTS SHALL BE IN ACCORDANCE WITH ACCEPTED ARBORICULTURAL PRACTICES (ANSI A300, PART 8) AND BE PERFORMED UNDER SUPERVISION OF THE ARBORIST.

   H. MATTING: INSTALL TEMPORARY MATTING OVER THE WOOD CHIPS OR MULCH AS NEEDED FOR UNAVOIDABLE VEHICULAR TRAFFIC (E.G., MINI EXCAVATOR). DO NOT PERMIT FOOT TRAFFIC, SCAFFOLDING OR THE STORAGE OF MATERIALS WITHIN THE TREE PROTECTION AREA TO OCCUR OFF THE TEMPORARY MATTING.

   I. TRUNK PROTECTION: PROTECT THE TRUNK OF ANY TREE ADJACENT TO SWINGING EQUIPMENT BY COVERING IT WITH A RING OF 8–FOOT–LONG 2–INCH X 6–INCH PLANKS (OR SIMILAR) LOOSELY BANDED WITH STEEL BANDS OR ROPE. STAPLE THE BANDS OR ROPE TO THE PLANKS AS NECESSARY TO HOLD THEM SECURELY IN PLACE. DO NOT DRILL INTO THE TRUNK OF THE TREE.

   J. TREES THAT RECEIVE EXCESSIVE ROOT IMPACTS FROM EXCAVATION SHALL BE EVALUATED BY A CERTIFIED ARBORIST QUALIFIED TO ASSESS CONSTRUCTION IMPACTS TO TREES. ROOTS LARGER THAN 2 INCHES IN DIAMETER SHALL BE CUT USING A SHARP SAW. LARGE ROOTS SHALL NOT BE CUT WITH HYDRAULICALLY DRIVEN EQUIPMENT (EXCAVATOR BUCKETS, ETC.) AS THEY TYPICALLY "RIP" OR "TEAR" ROOTS BEYOND PROTECTION LIMITS AND DAMAGE THE ROOT ZONE BEYOND THE NECESSARY AMOUNT.

7. AIR OR WATER SPADE SHALL BE USED WHERE PRACTICAL.

   A. IF EXCAVATION IS REQUIRED AT A DEPTH OF 2–FEET OR MORE WITHIN THE CRITICAL ROOT ZONE OF TREES AND SURFACE ROOTS ARE PRESENT, USE AN AIR SPADE UNDER THE DIRECTION OF THE ARBORIST TO ENSURE PROPER ROOT PRUNING.

   B. SCHEDULE WORK SO THAT CONSTRUCTION ACTIVITIES ARE COMPLETED IMMEDIATELY AFTER THE EXCAVATION. IF WORK IN THE VICINITY CANNOT BE COMPLETED THAT DAY, COVER EXPOSED ROOTS WITH MULCH OR DAMP BURLAP TO AVOID ROOTS DRYING OUT.

8. TREE SNAGGING: SNAG ALL TREES AS INDICATED IN THE PROJECT DRAWINGS TO A HEIGHT OF 10 TO 20 FEET ABOVE GROUND SURFACE. PLEASE SEE THE CORONET TOPPING RECOMMENDATIONS IN THE SPECIFICATIONS.

9. WATERING: DURING THE DRY SEASON (JUNE 15 THROUGH OCTOBER 15), ENSURE THE CRITICAL ROOT ZONES OF ANY TREES THAT HAD ROOTS EXPOSED DURING CONSTRUCTION RECEIVE AT LEAST ONE INCH OF WATER ONCE EVERY TWO WEEKS. THIS SHOULD BE COMPLETED DURING ACTIVE CONSTRUCTION AND DURING ANY PORTION OF THE DRY SEASON DIRECTLY FOLLOWING CONSTRUCTION.

10. CONTRACTOR SHALL DEVELOP A TREE, VEGETATION, AND SOIL PROTECTION PLAN AS DESCRIBED IN THE SPECIFICATIONS

GRADING NOTES

1. REFER TO CITY OF SEATAC GENERAL NOTES FOR FURTHER REQUIREMENTS.

2. GRADING SHALL NOT RESULT IN ANY ADDITIONAL WATER FLOWING TO ADJOINING PROPERTIES. IF ADDITIONAL WATER DOES RESULT, THE CONTRACTOR WILL SUBMIT A PLAN OF CORRECTIVE ACTION FOR CITY APPROVAL AND WILL COMMENCE WITH THAT ACTION IMMEDIATELY UPON NOTICE FROM CITY.

3. THE CONTRACTOR SHALL OBTAIN APPROVAL FOR ALL FILL AND ROAD CONSTRUCTION MATERIAL WITHIN THE CITY OF SEATAC RIGHT OF WAY FROM THE DIRECTOR OF PUBLIC WORKS PRIOR TO ITS USE.

4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING AND REPAIRING EXISTING IMPROVEMENTS, AS REQUIRED, UNTIL CONSTRUCTION IS APPROVED BY THE CITY OF SEATAC PUBLIC WORKS DEPARTMENT.

5. THE CITY SHALL VERIFY AND APPROVE ALL BACKFILL TRENCHES AND ROADWAY SUBGRADE PRIOR TO PLACING. THE CITY OF SEATAC IS TO BE PROVIDED WITH THE DENSITY REPORT FROM A CERTIFIED "TESTING LAB" SHOWING SATISFACTORY COMPACTION PER SPECIFICATIONS. ALL SUBGRADE PREPARATORY REQUIREMENTS SHALL CONFORM TO THE SPECIFICATIONS.

6. THE MAXIMUM CUT/FILL SLOPE SHALL NOT EXCEED TWO FEET HORIZONTAL TO ONE FOOT VERTICAL UNLESS OTHERWISE APPROVED BY THE DIRECTOR OF PUBLIC WORKS. AT NO TIME SHALL THE TOE OF ANY FILL SLOPE BE NEARER TO THE PROPERTY LINE THAN 1 /2 THE FILL HEIGHT WITH A MINIMUM OF 2 FEET. CUT SLOPES SHALL NOT BE NEARER TO A PROPERTY LINE THAN 1/5 THE HEIGHT OF THE CUT WITH A MINIMUM OF 2 FEET.

7. A PERFORMANCE BOND IS REQUIRED FOR CONCURRENTLY REVIEWED EARLY GRADE PERMITS. THE BOND SHALL BE RECEIVED PRIOR TO THE ISSUANCE OF THE EARLY GRADE PERMIT AND SHALL NOT BE RELEASED UNTIL APPROVED BY THE CITY OF SEATAC DIRECTOR OF PUBLIC WORKS.

8. SPECIAL INSPECTION BY AN APPROVED GEOTECHNICAL FIRM IS REQUIRED AS DIRECTED BY THE CITY OF SEATAC DIRECTOR OF PUBLIC WORKS FOR GRADING IN RIGHT OF WAY.

9. INSPECTION REPORTS SHALL BE SUBMITTED TO THE CITY OF SEATAC FOR REVIEW, COMMENT AND APPROVAL PRIOR TO PUBLIC WORKS FINAL APPROVAL OF THE WORK.

ELECTRONIC INFORMATION TRANSFER AGREEMENT

AN AUTOCAD® FILE FOR THE SOLE PURPOSE OF 2D HORIZONTAL LAYOUT CAN BE PROVIDED TO THE CONTRACTOR AT THE BEGINNING OF THE PROJECT'S CONSTRUCTION. THE AUTOCAD FILE WILL PROVIDE FOR HORIZONTAL LAYOUT OF STRIPING, SPOT ELEVATIONS, AND PAVING (WALKS, CURBS) SHOWN ON PLAN VIEW OF THE LANDSCAPE DRAWINGS. PRIOR TO RELEASE OF AUTOCAD FILE, CONTRACTOR WILL BE REQUIRED TO SIGN AN ELECTRONIC INFORMATION TRANSFER AGREEMENT (EITA) FORM FROM MXM. PLEASE SUBMIT REQUEST FOR MXM'S EITA FORM THROUGH THE OWNER'S PROJECT CONTACT ESTABLISHED FOR THE JOB. OWNER'S PROJECT CONTACT WILL THEN NOTIFY MXM'S PROJECT MANAGER FOR A COPY OF THE EITA FORM. AFTER MXM HAS RECEIVED THE SIGNED EITA FORM, ALLOW UP TO SEVEN (7) BUSINESS DAYS FOR PREPARATION OF THE FILE BY MXM. IF DISCREPANCIES ARE OBSERVED BETWEEN THE AUTOCAD FILE PROVIDED AND INFORMATION SHOWN ON THE HARD COPY OF THE CONSTRUCTION DOCUMENTS, NOTIFY PROJECT CONTACT BY SUBMITTING A RFI.

BID SET

STATE OF WASHINGTON · BRICE MARY MXM · NO. 1147 · EXP. 7/16/2027 · LANDSCAPE ARCHITECT

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REV #	DATE OF REV

DRAWN BY	TS, ZM, CF, ML
CHECKED BY	BM, SM
DATE	OCTOBER 28, 2026

SHEET NAME

NOTES

SHEET #

L0.2

NOT IN CONTRACT

REMOVABLE BOLLARD (7 / L5.0)

ROCKERY WALL (5 / L5.1)

NEW ASPHALT CONNECTION

NEW CONCRETE PATHWAY

10'-6"

ADD ALT 2. SEE NOTE 6.

(3 / L1.5) SECTION CUT CONTINUES ONTO SHEET L1.3

4' CHAIN LINK FENCE, TYP. (1 / L5.7)

SCULPTURE PLINTH, TYP. SEE STRUCTURAL

(4 / L1.5) (1 / L1.6) SECTION CUT CONTINUES ONTO SHEET L1.3

"CALM" SPRAY PARK. SEE MECHANICAL.

(2 / L1.5) PEBBLE BENCHES, TYP.

(4 / L5.0) FLUSH STEPPING STONES FROM PLAYGROUND TO SPRAY PARK

"ACTIVE" SPRAY PARK. SEE MECHANICAL.

(3 / L5.6) 4' FENCE POST IN CONCRETE CURB AND EXPANSION JOINT

(2 / L5.0) CONCRETE MOW STRIP

CAST-IN-PLACE CONCRETE SEAT WALLS, TYP. SEE STRUCTURAL

CAST-IN-PLACE CONCRETE RETAINING WALLS, TYP. SEE STRUCTURAL

PREFABRICATED RESTROOM/ MECHANICAL ROOM BUILDING. SEE PLANS IN SPECIFICATION APPENDICES. SEE NOTE 4.

TRENCH DRAIN, TYP. SEE CIVIL.

ADD ALT 1. SEE NOTE 5.

6'-0"

(1 / L1.5)

SEE SHEET L1.3

SEE SHEET L1.2

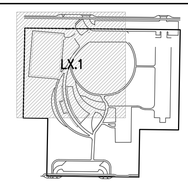
LEGEND

- ASPHALT PAVING (3 / L5.0)
- PEDESTRIAN PAVEMENT – BROOM-SWEPT FINISH (1 / L5.0)
- PEDESTRIAN PAVEMENT – EXPOSED AGGREGATE FINISH (1 / L5.0)
- STONE MULCH (6 / L5.0)
- POURED-IN-PLACE RESILIENT SURFACING (5 / L5.0)
- SYNTHETIC TURF FIELD (1 / L5.6)
- PROPERTY LINE
- LIMITS OF WORK
- PARK LAND TO BE DEDICATED TO ISLAMIC CENTER OF SEATTLE
- ISLAMIC CENTER OF SEATTLE LAND TO BE DEDICATED TO PARK
- AREA NOT IN CONTRACT
- LIGHT POLE. SEE ELCTRICAL AND STRUCTURAL PLANS
- ADA PARKING SIGN (1 / L5.9)
- BACK-IN ONLY PARKING SIGN, R7-10
- TRASH RECEPTACLE
- PET WASTE BAGS
- PARK RULES SIGN
- PARKING CURB STOP (2 / L5.8)
- TREE PROTECTION ZONE. SEE NOTES ON GRADING PLANS.
- ½ DISTANCE TREE PROTECTION ZONE RADIUS. SEE NOTES ON GRADING PLANS. (5 / L5.2)

NOTES

1. SEE SHEET L0.3 FOR NOTES
2. SEE L2.X SERIES FOR GRADING PLAN
3. SEE L3.X SERIES FOR PLANTING PLAN
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5. ADD ALT 1 SHALL CONSIST OF ALL WORK AND MATERIALS TO REPLACE THE EXISTING ENGINEERED WOOD FIBER AROUND EXISTING PLAY STRUCTURES WITH A POURED IN PLACE RESILIENT SURFACING.
6. ADD ALT 2 SHALL CONSIST OF ALL WORK AND MATERIALS TO INSTALL A SYNTHETIC TURF ATHLETIC FIELD, INCLUDING, BUT NOT LIMITED TO, TESC, EARTHWORK, GRADING, DRAINAGE, BASE PLACEMENT AND COMPACTION, FIELD SURFACING, FENCING, PAVING, ROCKERIES, SEEDING AND IRRIGATION AS SHOWN ON PLANS. BASE BID CONDITION SHALL CREATE A 1' WIDE LEVEL AREA ADJACENT TO THE NEW CONCRETE PAVING AND THEN SLOPE GRADES AT 4:1 TO MEET EXISTING GRADES. ANY DISTURBED AREAS SHALL BE SEEDED AND IRRIGATED.

KEY MAP



N

0 20' 40'
1"=20'

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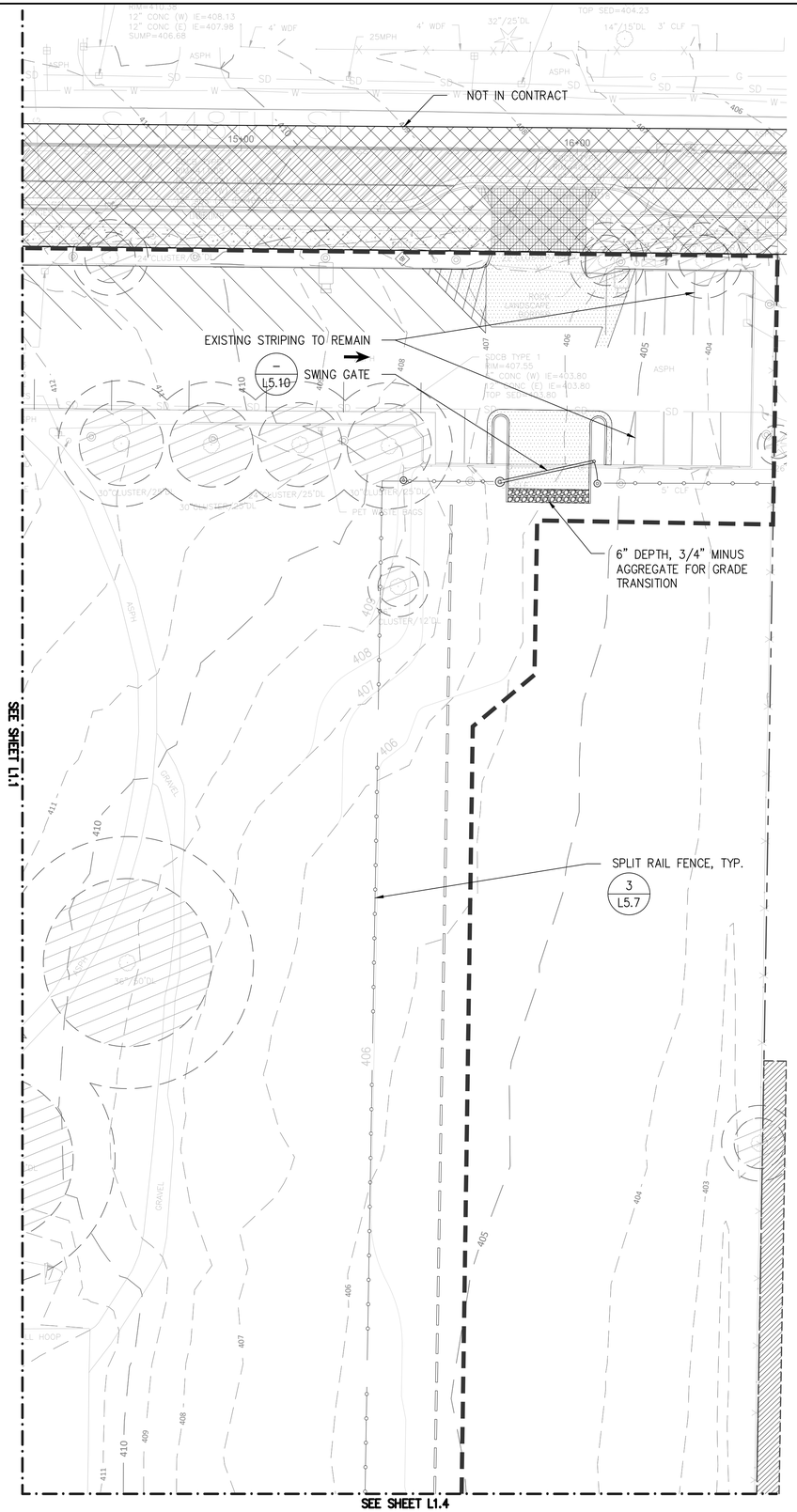
SHEET NAME

SITE AND MATERIALS PLAN

SHEET #

L1.1

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N

0 20' 40'

1"=20'

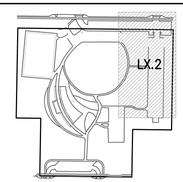
LEGEND

- ASPHALT PAVING — 3 / L5.0
- PEDESTRIAN PAVEMENT – BROOM–SWEPT FINISH — 1 / L5.0
- PEDESTRIAN PAVEMENT – EXPOSED AGGREGATE FINISH — 1 / L5.0
- STONE MULCH — 6 / L5.0
- POURED–IN–PLACE RESILIENT SURFACING — 5 / L5.0
- SYNTHETIC TURF FIELD — 1 / L5.6
- PROPERTY LINE
- LIMITS OF WORK
- PARK LAND TO BE DEDICATED TO ISLAMIC CENTER OF SEATTLE
- ISLAMIC CENTER OF SEATTLE LAND TO BE DEDICATED TO PARK
- AREA NOT IN CONTRACT
- LIGHT POLE. SEE ELCTRICAL AND STRUCTURAL PLANS
- ADA PARKING SIGN — 1 / L5.9
- BACK–IN ONLY PARKING SIGN, R7–10
- TRASH RECEPTACLE
- PET WASTE BAGS
- PARK RULES SIGN
- PARKING CURB STOP — 2 / L5.8
- TREE PROTECTION ZONE. SEE NOTES ON GRADING PLANS.
- ½ DISTANCE TREE PROTECTION ZONE RADIUS. SEE NOTES ON GRADING PLANS. — 5 / L5.2

NOTES

1. SEE SHEET L0.3 FOR NOTES
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KEY MAP



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SHEET NAME

SITE AND MATERIALS PLAN

SHEET #

L1.2

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SEE SHEET L1.1

SEE SHEET L1.4

2 L5.0 CONCRETE MOW STRIP

1 L1.6

NOTE: CONTRACTOR TO LOCATE PREVIOUSLY INSTALLED FRENCH DRAIN AND ASSOCIATED PIPE PRIOR TO BEGINNING WORK IN THIS AREA.

SECTION CUT CONTINUES ONTO SHEET L1.1

ADD ALT 1. SEE NOTE 5.

CAST-IN-PLACE CONCRETE RETAINING WALLS, TYP. SEE STRUCTURAL

CAST-IN-PLACE CONCRETE SEAT WALLS, TYP. SEE STRUCTURAL

SCULPTURE PLINTH, TYP. SEE STRUCTURAL

3 L1.5 SECTION CUT CONTINUES ONTO SHEET L1.1.

NEW STORMWATER VAULT INFRASTRUCTURE WILL BE INSTALLED IN THIS AREA. SEE CIVIL UTILITY PLANS. RESTORE EXISTING LAWN, FENCE, AND ASPHALT PATH FOR AREAS IMPACTED BY UTILITY CONSTRUCTION.

NOT IN CONTRACT

– L5.10 SWING GATE

NEW ROW DEDICATION 10'-0", TYP.

R.O.W. PAVING AND GRADING. SEE CIVIL

UTILITY IMPROVEMENTS IN THE RIGHT OF WAY SHALL BE AS SHOWN ON THE CIVIL UTILITY PLANS. HORIZONTAL IMPROVEMENTS LIKE CURB, GUTTER AND SIDEWALK ARE NOT IN CONTRACT.

UTILITY AND ROADWAY IMPROVEMENTS IN THE RIGHT OF WAY SHALL BE AS SHOWN ON THE CIVIL UTILITY PLANS. HORIZONTAL IMPROVEMENTS LIKE CURB, GUTTER AND SIDEWALK ARE NOT IN CONTRACT.

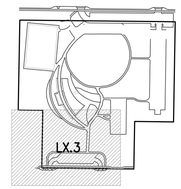
LEGEND

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KEY MAP



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1"=20'

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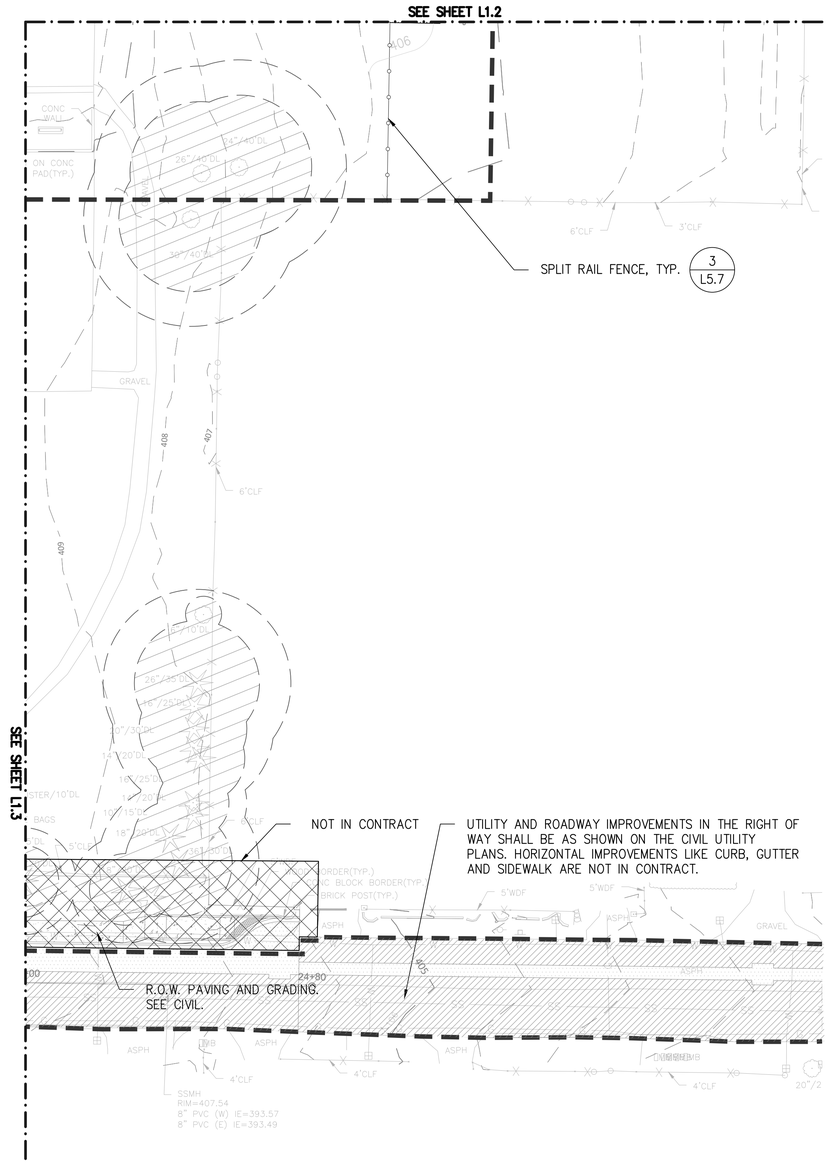
SHEET NAME

SITE AND MATERIALS PLAN

SHEET #

L1.3

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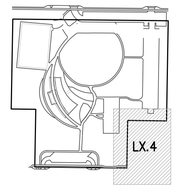
LEGEND

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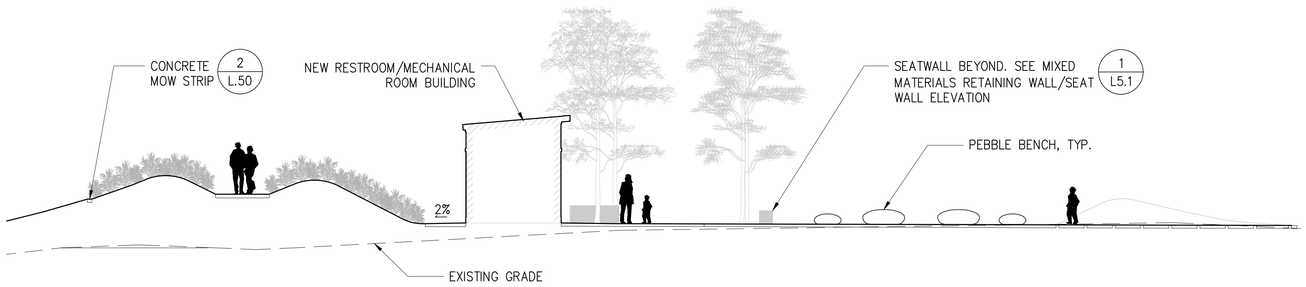
SHEET NAME

SITE AND MATERIALS PLAN

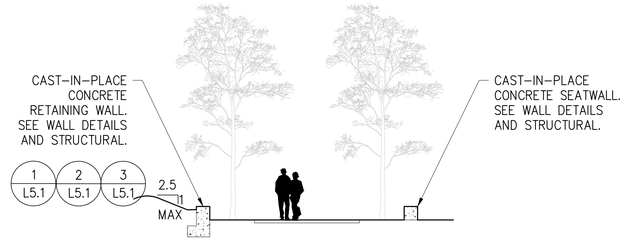
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L1.4

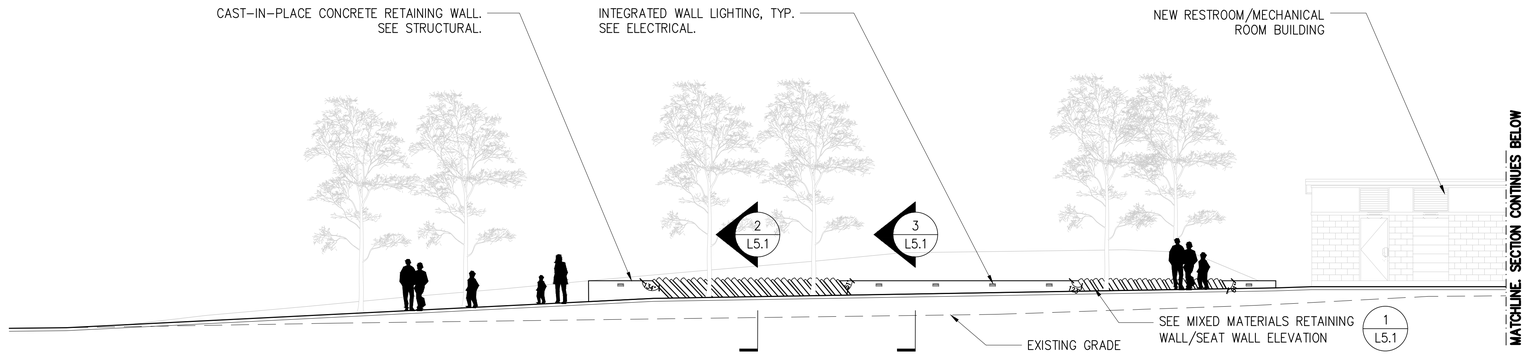
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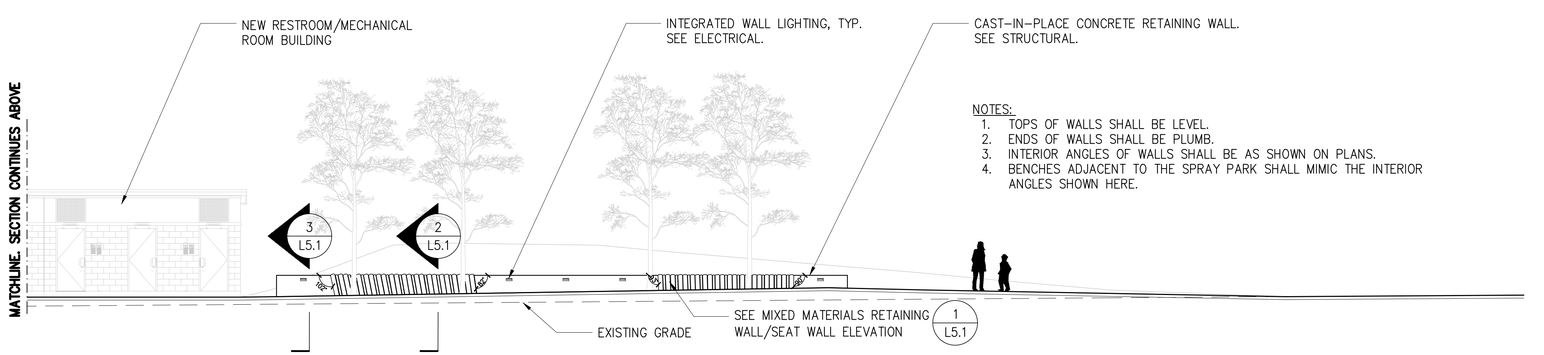


1 SECTION
NTS

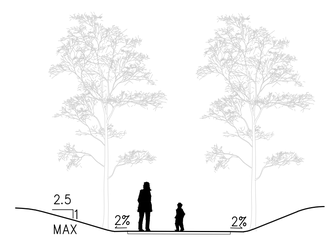


2 SECTION
NTS





3 SECTION
NTS



4 SECTION
NTS

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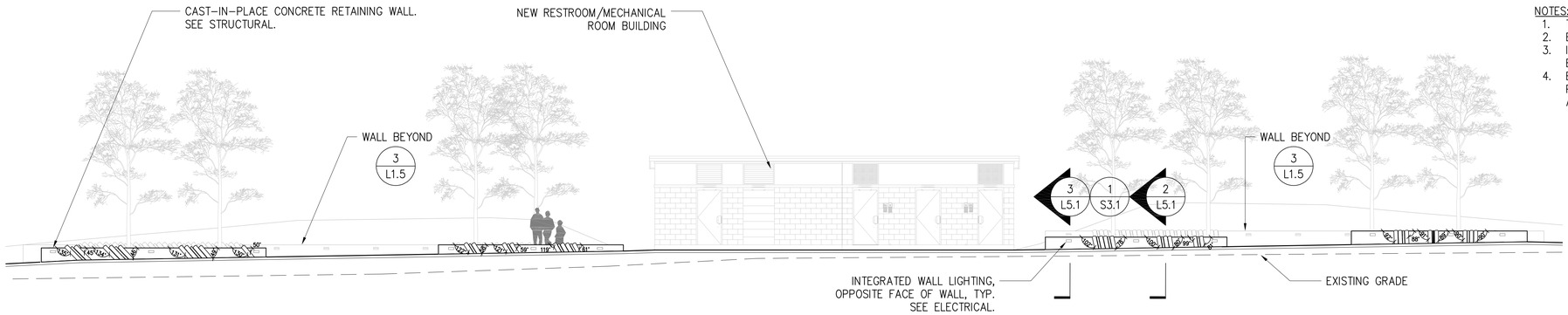
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SHEET NAME
SITE SECTIONS

SHEET #
L1.5



NOTES:
1. TOPS OF WALLS SHALL BE LEVEL.
2. ENDS OF WALLS SHALL BE PLUMB.
3. INTERIOR ANGLES OF WALLS SHALL BE AS SHOWN ON PLANS.
4. BENCHES ADJACENT TO THE SPRAY PARK SHALL MIMIC THE INTERIOR ANGLES SHOWN HERE.

1 SECTION
NTS

BID SET

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SHEET NAME
SITE SECTIONS

SHEET #
L1.6

NOT IN CONTRACT

MEET EXISTING GRADE

MEET EXISTING GRADE

TW 414.5
BW 413.4

TW 415.2
BW 414.2

TW 415.1
BW 414.1

TW 415.2
BW 413.6

ADD ALT 2. SEE SITE AND MATERIALS PLAN

TW 413.2
BW 411.9

TW 413.2
BW 411.7

TW 413.2
BW 411.8

HP415.2

HP 417.3

SPRAY PARK USE AREA. SEE MECHANICAL PLANS

ADD ALT 1. SEE SITE AND MATERIALS PLAN

SEE SHEET L2.3

SEE SHEET L2.2

LEGEND

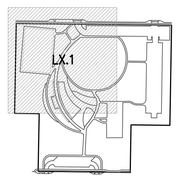
- GRADE BREAK
- LIMITS OF WORK
- FIELD SUBSURFACE DRAINAGE LATERAL. SEE CIVIL FOR CONNECTION TO STORM SYSTEM — 5 / L5.6
- FIELD SUBSURFACE DRAINAGE COLLECTOR CONNECTION — 6 / L5.6
- ACCESSIBLE PATH OF TRAVEL AND ACCESSIBLE TURNING AREAS. SEE NOTE 1.
- TREE PROTECTION ZONE. SEE NOTES. — 5 / L5.2
- ½ DISTANCE TREE PROTECTION ZONE RADIUS. SEE NOTES.

NOTES

1. ACCESSIBLE PATH OF TRAVEL SHALL NOT EXCEED 4.7% LONGITUDINAL OR 1.7% CROSS SLOPE AND LANDINGS / ACCESSIBLE TURNING AREAS SHALL NOT EXCEED 1.7% IN ANY DIRECTION.
2. SEE SHEET L0.3 FOR NOTES
3. SEE L1.X SERIES FOR SITE AND MATERIALS PLAN
4. SEE L3.X SERIES FOR PLANTING PLAN
5. SEE CIVIL SHEETS FOR ROW GRADING
6. TREE PROTECTION FENCING IS REQUIRED AT THE EDGE OF ALL TREE PROTECTION ZONES. NO STOCKPILING CONSTRUCTION MATERIALS OR ALTERING THE SOIL BEYOND WHAT IS SHOWN. NO TRENCHING FOR UTILITIES OR IRRIGATION. NO ITEMS SHALL BE ATTACHED TO THE TREE TRUNKS.

   UP TO 35% OF AREA OUTSIDE ½ DISTANCE OF TREE PROTECTION ZONE RADIUS MAY BE EXCLUDED FROM TREE PROTECTION AREA. IF 2–INCH OR GREATER ROOTS NEED TO BE MANIPULATED WITHIN THE TREE PROTECTION ZONE, AN ARBORIST MUST BE PRESENT TO PROVIDE GUIDANCE.
7. IF 2" OR GREATER DIA. ROOTS ARE FOUND BEYOND TREE PROTECTION FENCING, PROTECT BY HAND EXCAVATION, AND, IF NECESSARY, CUT CLEANLY AND KEEP MOIST.

KEY MAP



N

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1"=20'

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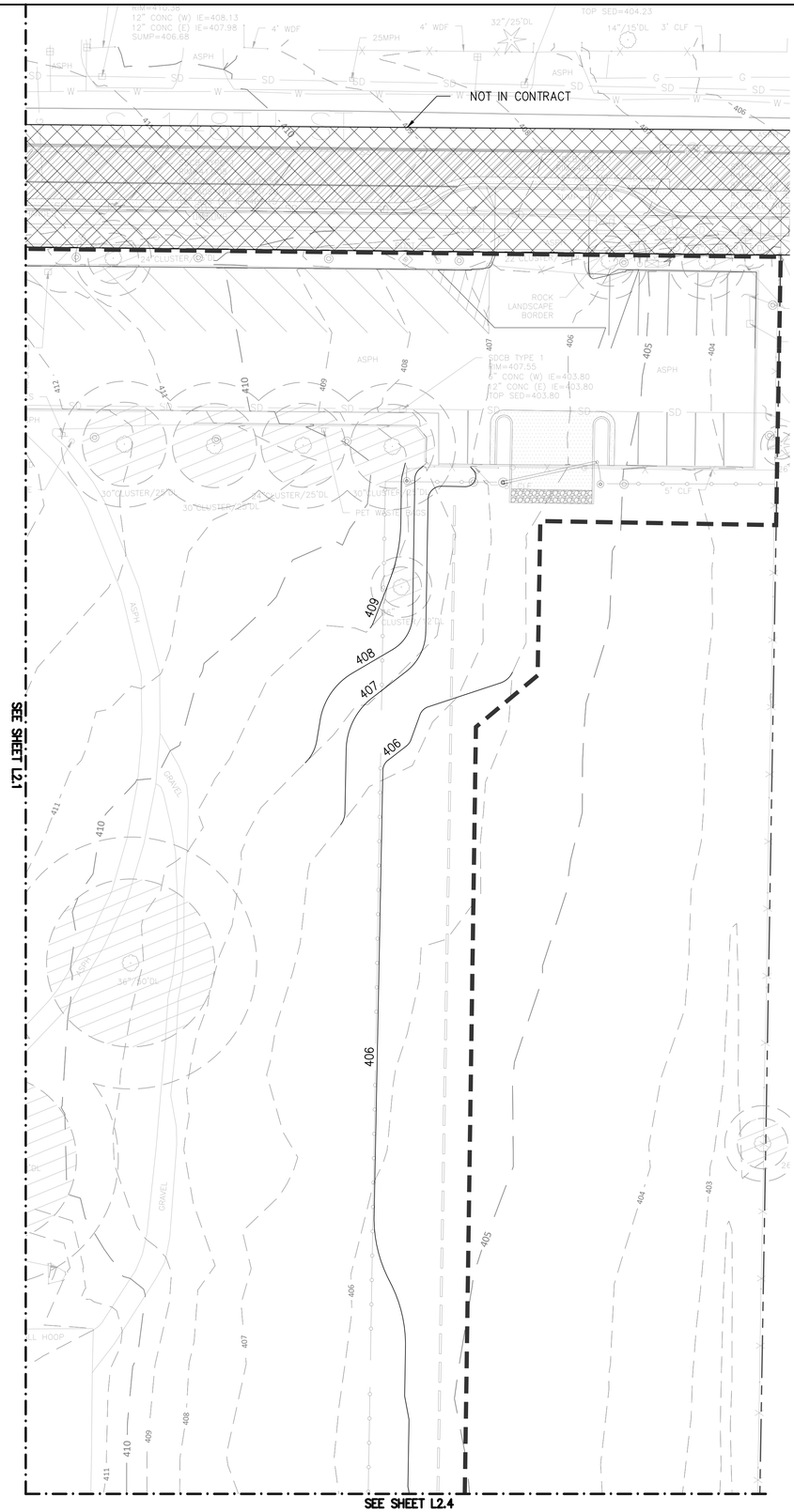
SHEET NAME

GRADING PLAN

SHEET #

L2.1

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LEGEND

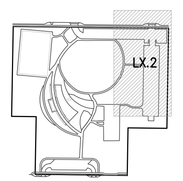
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4. SEE L3.X SERIES FOR PLANTING PLAN
5. SEE CIVIL SHEETS FOR ROW GRADING
6. TREE PROTECTION FENCING IS REQUIRED AT THE EDGE OF ALL TREE PROTECTION ZONES. NO STOCKPILING CONSTRUCTION MATERIALS OR ALTERING THE SOIL BEYOND WHAT IS SHOWN. NO TRENCHING FOR UTILITIES OR IRRIGATION. NO ITEMS SHALL BE ATTACHED TO THE TREE TRUNKS.

   UP TO 35% OF AREA OUTSIDE ½ DISTANCE OF TREE PROTECTION ZONE RADIUS MAY BE EXCLUDED FROM TREE PROTECTION AREA. IF 2–INCH OR GREATER ROOTS NEED TO BE MANIPULATED WITHIN THE TREE PROTECTION ZONE, AN ARBORIST MUST BE PRESENT TO PROVIDE GUIDANCE.
7. IF 2" OR GREATER DIA. ROOTS ARE FOUND BEYOND TREE PROTECTION FENCING, PROTECT BY HAND EXCAVATION, AND, IF NECESSARY, CUT CLEANLY AND KEEP MOIST.

KEY MAP



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SEATAC, WA 98188

CONTACT:
CLYNN WILKINSON
CWILKINSON@SEATAC.GOV
(206) 973–4755

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DATE	OCTOBER 28, 2026

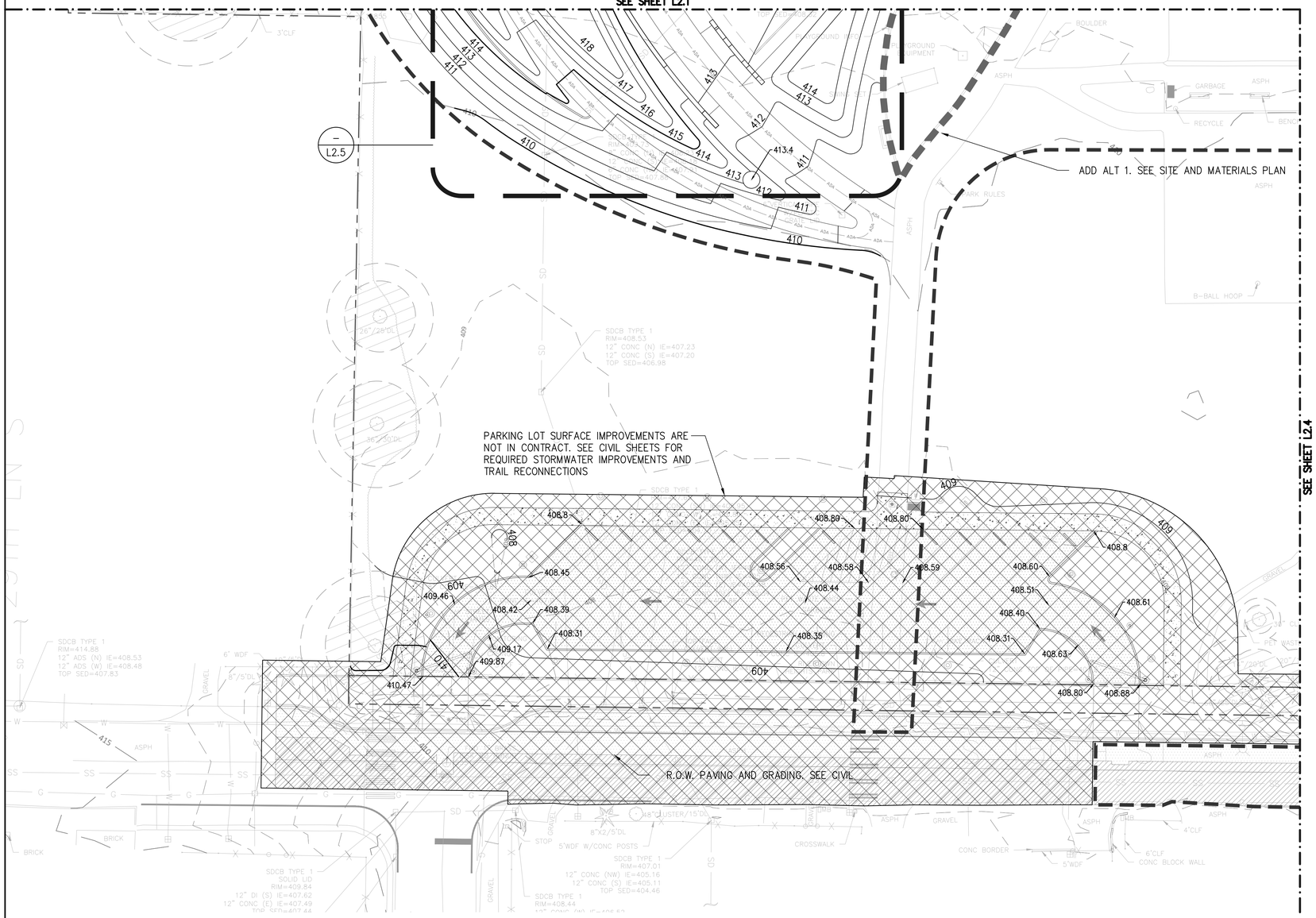
SHEET NAME

GRADING PLAN

SHEET #

L2.2

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LEGEND

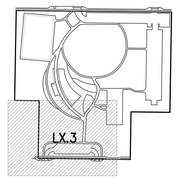
- GRADE BREAK
- LIMITS OF WORK
- FIELD SUBSURFACE DRAINAGE LATERAL. SEE CIVIL FOR CONNECTION TO STORM SYSTEM — 5 / L5.6
- FIELD SUBSURFACE DRAINAGE COLLECTOR CONNECTION — 6 / L5.6
- ACCESSIBLE PATH OF TRAVEL AND ACCESSIBLE TURNING AREAS. SEE NOTE 1.
- TREE PROTECTION ZONE. SEE NOTES. — 5 / L5.2
- ½ DISTANCE TREE PROTECTION ZONE RADIUS. SEE NOTES.

NOTES

1. ACCESSIBLE PATH OF TRAVEL SHALL NOT EXCEED 4.7% LONGITUDINAL OR 1.7% CROSS SLOPE AND LANDINGS / ACCESSIBLE TURNING AREAS SHALL NOT EXCEED 1.7% IN ANY DIRECTION.
2. SEE SHEET L0.3 FOR NOTES
3. SEE L1.X SERIES FOR SITE AND MATERIALS PLAN
4. SEE L3.X SERIES FOR PLANTING PLAN
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KEY MAP



N

0 20' 40'

1"=20'

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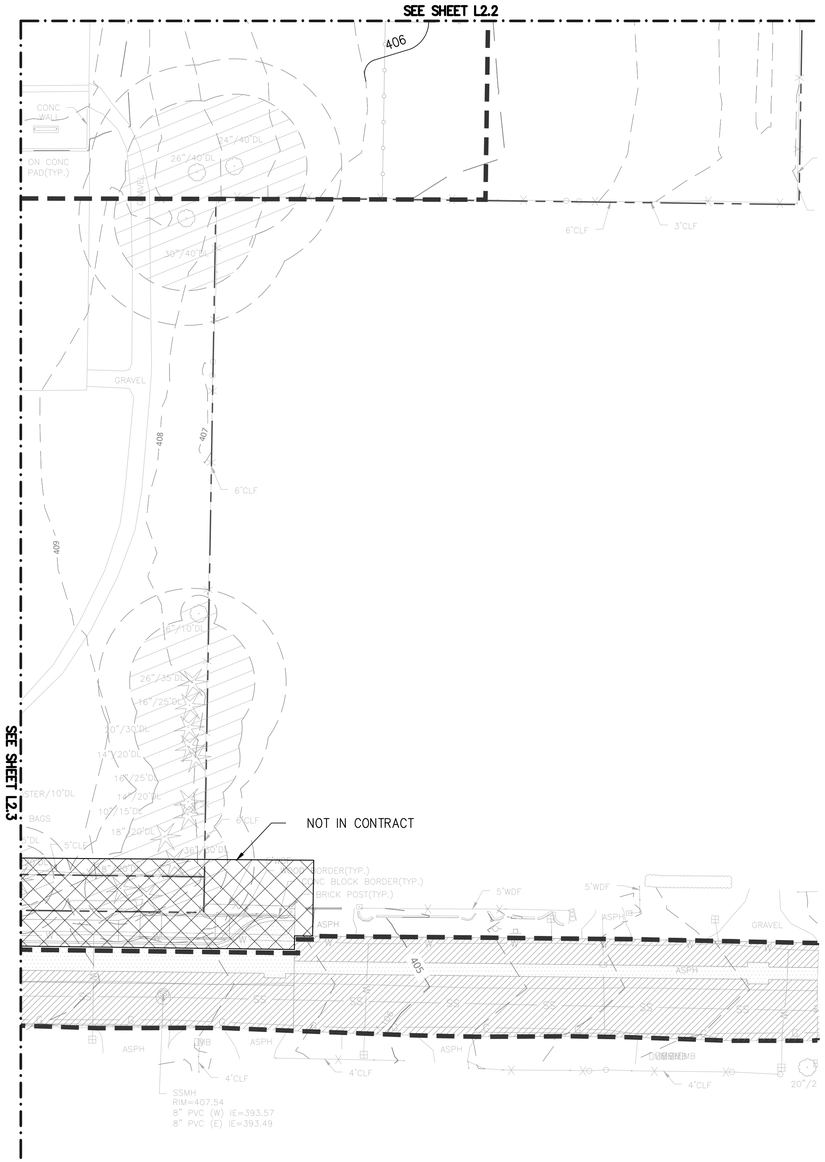
SHEET NAME

GRADING PLAN

SHEET #

L2.3

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LEGEND

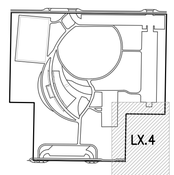
- GRADE BREAK
- LIMITS OF WORK
- FIELD SUBSURFACE DRAINAGE LATERAL. SEE CIVIL FOR CONNECTION TO STORM SYSTEM — 5 / L5.6
- FIELD SUBSURFACE DRAINAGE COLLECTOR CONNECTION — 6 / L5.6
- ACCESSIBLE PATH OF TRAVEL AND ACCESSIBLE TURNING AREAS. SEE NOTE 1.
- TREE PROTECTION ZONE. SEE NOTES. — 5 / L5.2
- ½ DISTANCE TREE PROTECTION ZONE RADIUS. SEE NOTES.

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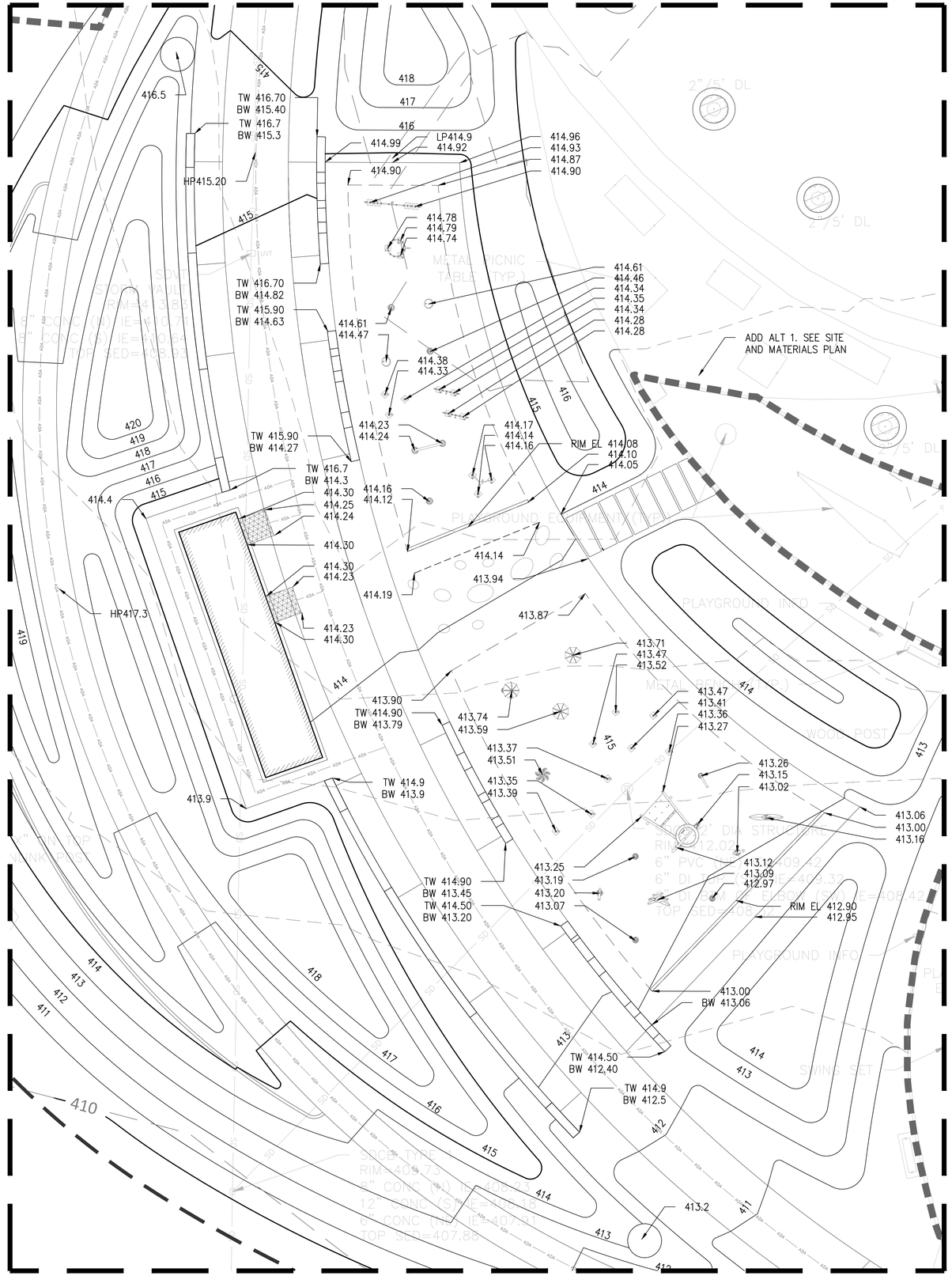
SHEET NAME

GRADING PLAN

SHEET #

L2.4

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MAH LANDSCAPE ARCHITECT, HRE



N

0 10' 20'

1"=10'

LEGEND

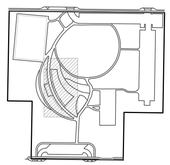
- GRADE BREAK
- LIMITS OF WORK
- ACCESSIBLE PATH OF TRAVEL AND ACCESSIBLE TURNING AREAS. SEE NOTE 1.
- TREE PROTECTION ZONE. SEE NOTES. (5 / L5.2)
- ½ DISTANCE TREE PROTECTION ZONE RADIUS. SEE NOTES.

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3. SEE L1.X SERIES FOR SITE AND MATERIALS PLAN
4. SEE L3.X SERIES FOR PLANTING PLAN
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KEY MAP



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SHEET NAME

SPRAY PARK GRADING ENLARGEMENT

SHEET #

L2.5

NOT IN CONTRACT

ADD ALT 2. SEE SITE AND MATERIALS PLAN

SPRAY PARK USE AREA. SEE MECHANICAL

ADD ALT 1. SEE SITE AND MATERIALS PLAN

L.3.5

SEE SHEET L3.2

SEE SHEET L3.3

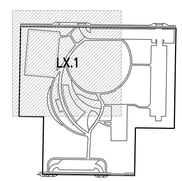
LEGEND

- CARPINUS BETULUS 'FASTIGIATA'
- ULMUS 'MORTON STALWART'
- CORNUS NUTTALLII
- QUERCUS FRAINETTO 'SCHMIDT'
- TRANSPLANTED CALLERY PEAR
- TRANSPLANTED MAPLE SPP.
- SEEDED LAWN
- MULCH
- SOIL CELLS (2 / L5.2)
- TREE PROTECTION ZONE. SEE NOTES ON GRADING PLANS. ½ DISTANCE TREE PROTECTION ZONE RADIUS. SEE NOTES ON GRADING PLANS. (5 / L5.2)

NOTES

1. SEE SHEET L3.6 FOR PLANTING SCHEDULE
2. SEE SHEET L5.2 FOR PLANTING DETAILS

KEY MAP



N

0 20' 40'

1"=20'

BID SET

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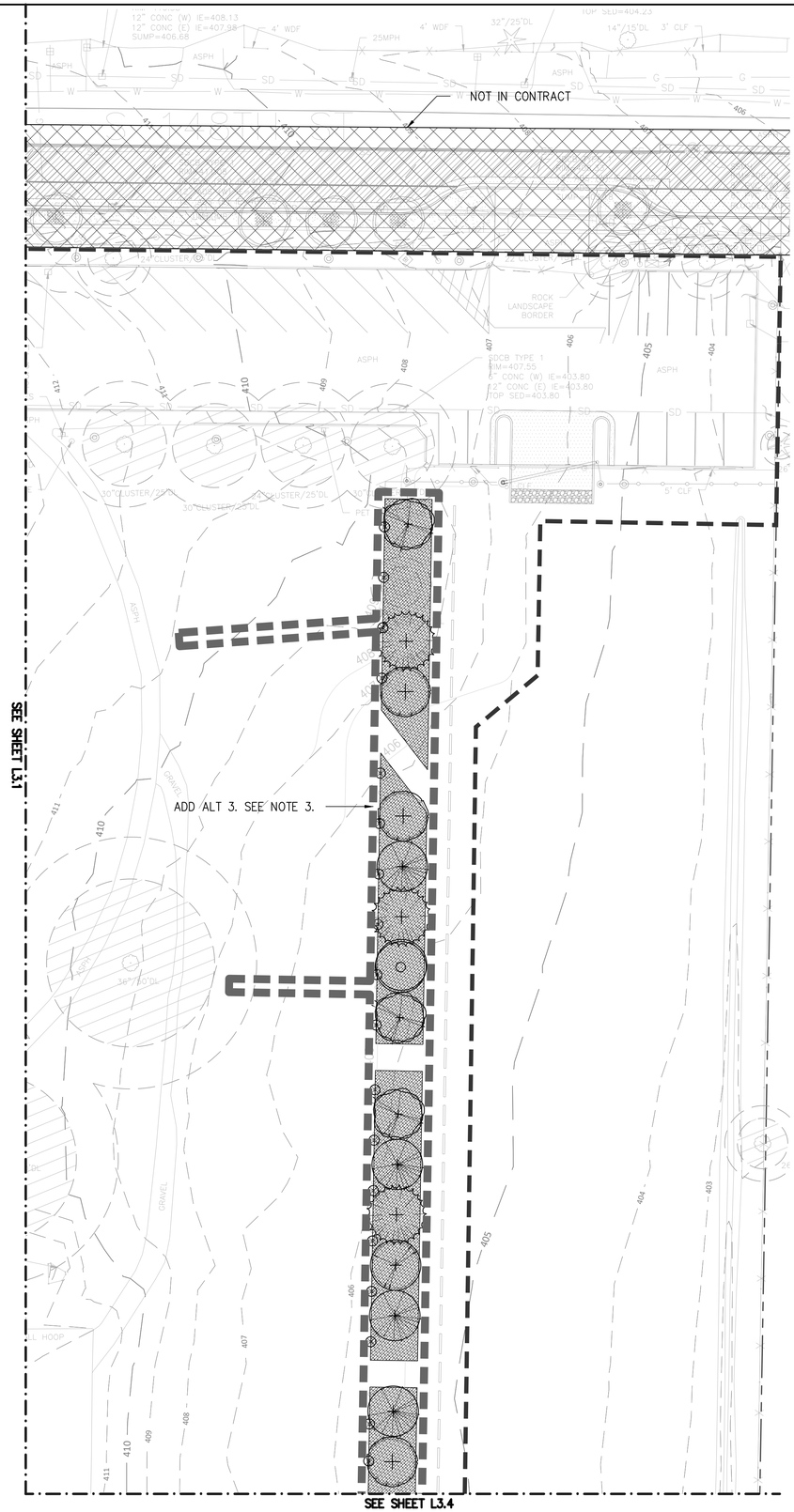
SHEET NAME

PLANTING PLAN

SHEET #

L3.1

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MAH LANDSCAPE ARCHITECTURE



N

0 20' 40'

1"=20'

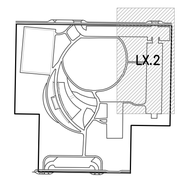
LEGEND

- CORNUS NUTTALLII
- QUERCUS FRAINETTO 'SCHMIDT'
- TRANSPLANTED CALLERY PEAR
- TRANSPLANTED MAPLE SPP.
- AMELANCHIER ALNIFOLIA
- PYRUS PYRIFOLIA 'KOREAN GIANT'
- PYRUS PYRIFOLIA 'SHINSEIKI'
- PRUNUS AVIUM 'LAPINS'
- PRUNUS SALICINA X 'METHLEY'
- FICUS CARICA 'DESERT KING'
- ACTINIDIA ARGUTA (MALE AND FEMALE)
- SEEDED LAWN
- MULCH
- SOIL CELLS (2 / L5.2)
- TREE PROTECTION ZONE. SEE NOTES ON GRADING PLANS.
- ½ DISTANCE TREE PROTECTION ZONE RADIUS. SEE NOTES ON GRADING PLANS. (5 / L5.2)

NOTES

1. SEE SHEET L3.6 FOR PLANTING SCHEDULE
2. SEE SHEET L5.2 FOR PLANTING DETAILS
3. ADD ALT THREE SHALL CONSIST OF INSTALLING IRRIGATION LINES, MULCH, AND PLANTINGS AS SHOWN. SEE SHEET L4.2 FOR IRRIGATION LAYOUT. BASE BID SHALL CONSIST OF GRADING AS SHOWN ON SHEET L2.2, AND RESTORATION SEEDING OF ANY DISTURBED AREAS

KEY MAP



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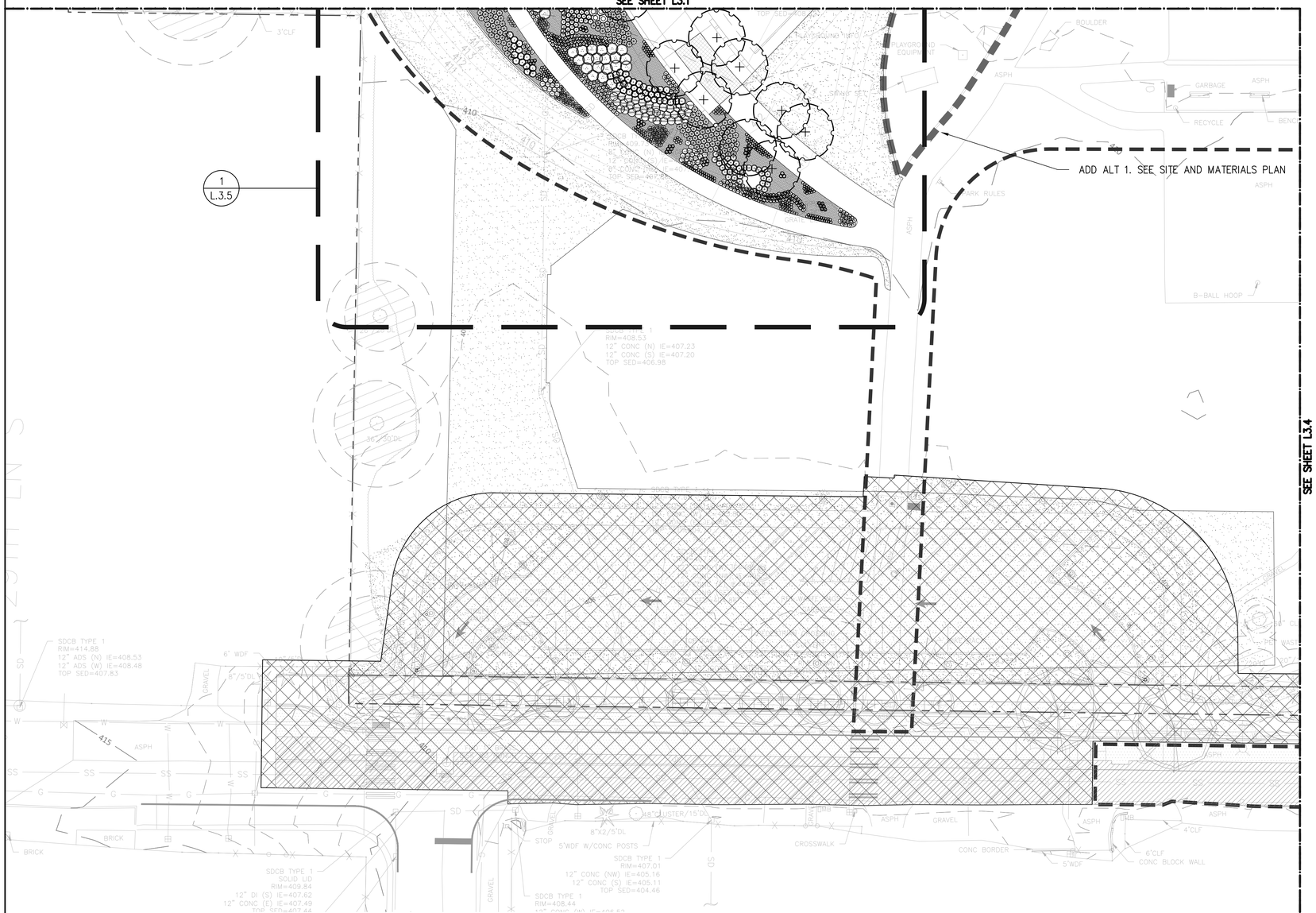
SHEET NAME

PLANTING PLAN

SHEET #

L3.2

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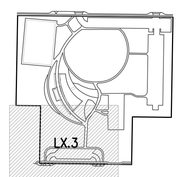
LEGEND

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KEY MAP



N

0 20' 40'
1"=20'

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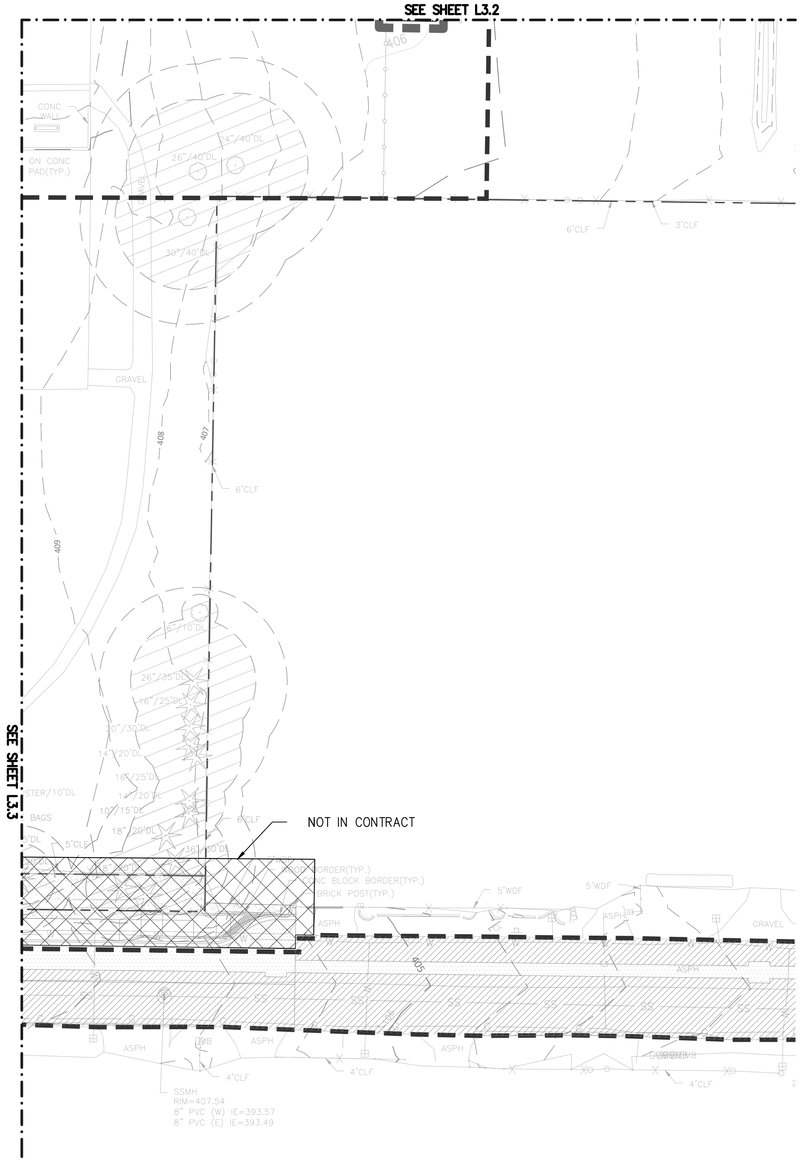
SHEET NAME

PLANTING PLAN

SHEET #

L3.3

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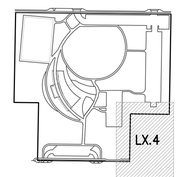
LEGEND

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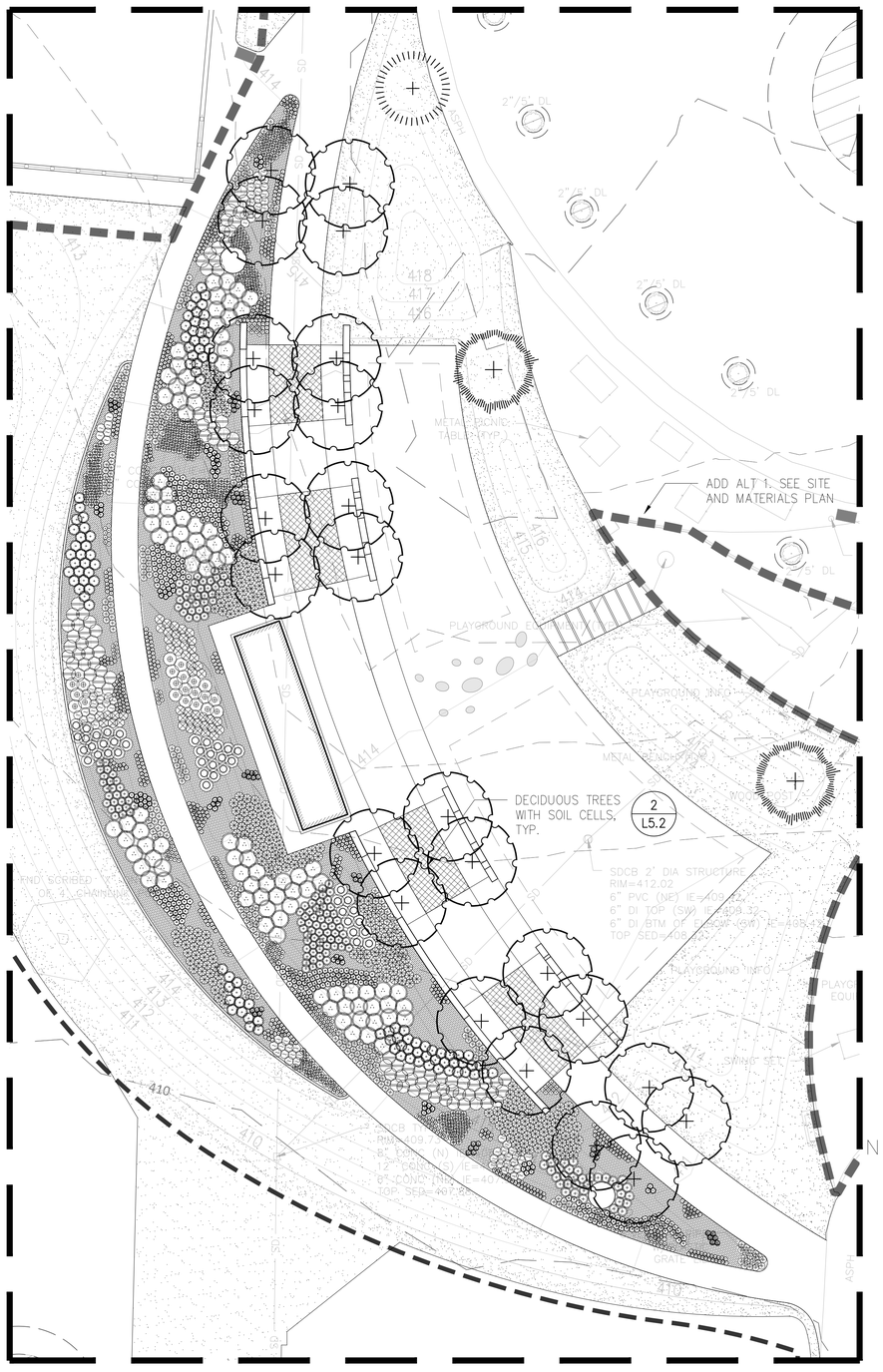
SHEET NAME

PLANTING PLAN

SHEET #

L3.4

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DATE	OCTOBER 28, 2026

SHEET NAME

PLANTING PLAN ENLARGEMENT

SHEET #

L3.5

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PLANTING SCHEDULE DT=DROUGHT TOLERANT, DR= DROUGHT RESISTANT, NWN=NORTHWEST NATIVE OR CULITVAR, EG=EVERGREEN, SEMI=SEMI-EVERGREEN

TREES

QTY	SCIENTIFIC NAME	COMMON NAME	EG	DT	NWN	SIZE/SPACING	DETAIL
24	CARPINUS BETULUS 'FASTIGIATA'	EUROPEAN HORNBEAM				AS SHOWN	1/L5.2 2/L5.2
4	ULMUS 'MORTON STALWART'	COMMENDATION ELM				AS SHOWN	1/L5.2
21	CORNUS NUTTALLII	PACIFIC DOGWOOD				AS SHOWN	1/L5.2
9	QUERCUS FRAINETTO 'SCHMIDT'	FOREST GREEN OAK				AS SHOWN	1/L5.2
4	PYRUS CALLERYANA	TRANSPLANTED CALLERY PEAR				AS SHOWN	1/5.2
2	ACER SPP.	TRANSPLANTED MAPLE SPP.				AS SHOWN	1/5.2
3	AMELANCHIER ALNIFOLIA	SASKATOON SERVICEBERRY				AS SHOWN	1/5.2
1	PYRUS PYRIFOLIA 'KOREAN GIANT'	KOREAN GIANT ASIAN PEAR				AS SHOWN	1/5.2
1	PYRUS PYRIFOLIA 'SHINSEIKI'	SHINSEIKI ASIAN PEAR				AS SHOWN	1/5.2
3	PRUNUS AVIUM 'LAPINS'	LAPINS CHERRY				AS SHOWN	1/5.2
4	PRUNUS SALICINA X 'METHLEY'	METHLEY PLUM				AS SHOWN	1/5.2
3	FICUS CARICA 'DESERT KING'	DESERT KING FIG				AS SHOWN	1/5.2

SHRUBS AND GROUNDCOVERS

QTY	SCIENTIFIC NAME	COMMON NAME	EG	DT	NWN	<24" HT.	SIZE/SPACING	DETAIL
99	SALVIA DOORII	DESERT PURPLE SAGE	EG	DT		12-24" HT.	2 GAL. / AS SHOWN	3/L5.2
297	ACHILLEA MILLEFOLIUM 'LITTLE MOONSHINE'	YARROW		DT	NWN	24-36" HT.	2 GAL. / AS SHOWN	3/L5.2
259	EUPATORIUM DUBIUM 'LITTLE JOE'	JOE PYE WEED	EG	DT		48-72" HT.	2 GAL. / AS SHOWN	3/L5.2
119	DESCHAMPSIA CESPITOSA	TUFTED HAIRGRASS	EG	DT	NWN	24-36" HT.	5 GAL. / AS SHOWN	3/L5.2
88	AGASTACHE FOENICULUM 'LICORICE CANDY'	LAVENDAR HYSSOP	EG	DT	NWN	24-48" HT.	1 GAL. / AS SHOWN	3/L5.2
241	ASTER PAUCICAPITATUS	OLYMPIC ASTER	EG	DT		24" HT.	1 GAL. / AS SHOWN	3/L5.2
103	PENSTEMON VENUSTUS	VENUS PENSTEMON	EG	DT	NWN	12-32" HT.	2 GAL. / AS SHOWN	3/L5.2
75	ERYNGIUM PLAUNUM	SEA HOLLY		DT		12-36" HT.	2 GAL. / AS SHOWN	3/L5.2
42	ECHINACEA PURPUREA 'WHITE SWAN'	CONE FLOWER		DT		48" HT.	2 GAL / AS SHOWN	3/L5.2
46	BOUTELOUA SPECIOSA	BLUE GRAMA GRASS	EG	DT		12-15" HT.	5 GAL / AS SHOWN	3/L5.2
22	MAHONIA AQUIFOLIUM 'COMPACTA'	COMPACT TALL OREGON GRAPE	EG	DT	NWN	24-36" HT.	2 GAL. / AS SHOWN	3/L5.2
566	SESLERIA AUTUMNALIS	AUTUMN MOOR GRASS	EG	DT		15" HT	4 QT. / AS SHOWN	3/L5.2
295	STACHYS BYZANTINA 'SILVER CARPET'	LAMBS EAR	EG	DT		10-15" HT.	4 QT / AS SHOWN	3/L5.2
267	SEDUM SPURIUM 'DRAGONS BLOOD'	STONECROP	EG	DT		6" HT.	4 QT / AS SHOWN	3/L5.2
86	CAMASSIA QUAMASH	CAMAS		DT	NWN		2 GAL. / AS SHOWN	3/L5.2
55	SPHAEALCEA MUNROANA	GLOBE MALLOW		DT	NWN		2 GAL. / AS SHOWN	3/L5.2
72	AQUILEGIA FORMOSA	WESTERN COLUMBINE		DT	NWN		2 GAL. / AS SHOWN	3/L5.2
81	VIBURNUM PLICATUM VAR. TOMENTOSUM 'STEADY EDDY'	'STEADY EDDY' DOUBLEFILE VIBURNUM				60" HT	2 GAL. / AS SHOWN	3/L5.2 2/L3.5
585	SPOROBOLUS HETEROLEPIS	PRAIRIE DROPSEED	EG	DT			1 GAL. @ 2' O.C.	4/L5.2
18	ACTINIDIA ARGUTA (MALE AND FEMALE)	HARDY KIWI					1 GAL. / AS SHOWN	3/L5.2

BID SET

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SHEET NAME

PLANTING SCHEDULE

SHEET #

L3.6

MXM LANDSCAPE ARCHITECTURE PRINTED ON: 2024-02-26 2203.L36 PLANTING SCHEDULE.DWG

NOT IN CONTRACT

WHEN INSTALLING NEW, LOOPED MAINLINE, TAKE CARE TO NOT DAMAGE THE EXISTING IRRIGATION SYSTEM, WHICH ARE INCLUDED AS A REFERENCE IN THE SPECIFICATION APPENDICES. ADJUSTMENTS IN THE MAIN LINE ROUTING MAY BE MADE TO AVOID CONFLICTS.

REMOVE EXISTING IRRIGATION HEADS THAT WILL BE IMPACTED BY THE NEW PATH ALIGNMENT, TRIM EXISTING LATERAL LINES AND RE-INSTALL HEADS/ROTORS.

ADD ALT 2. SEE SITE AND MATERIALS PLAN

PROTECT EXISTING IRRIGATION SYSTEM COMPONENTS WITHIN THE CIRCULAR LAWN. SEE THE DESIGN PLANS FOR THIS AREA'S IRRIGATION SYSTEM AS PART OF THE SPECIFICATION APPENDICES.

1 / L5.3 CONNECTION TO NEW 3" WATER MAIN. SEE CIVIL

POC

SEE DRIP LAYOUT AT TREES, TYP 4 / L5.5

LOCATE IRRIGATION CONTROLLER IN MECHANICAL/RESTROOM BUILDING. SEE MECHANICAL 1 / L5.4

ADD ALT 1. SEE SITE AND MATERIALS PLAN

SEE SHEET L4.2

SEE SHEET L4.3

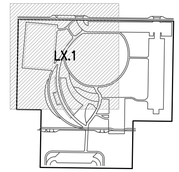
LEGEND

- IRRIGATION MAIN LINE
- IRRIGATION LATERAL LINE
- SUBSURFACE DRIPLINE
- SLEEVING
- HUNTER PGP-ADJ ROTORS
- LIMIT OF WORK
- AREA NOT IN CONTRACT

NOTES

1. SEE SHEET L4.5 FOR IRRIGATION LEGEND AND SCHEDULES.

KEY MAP



N

0 20' 40'
1"=20'

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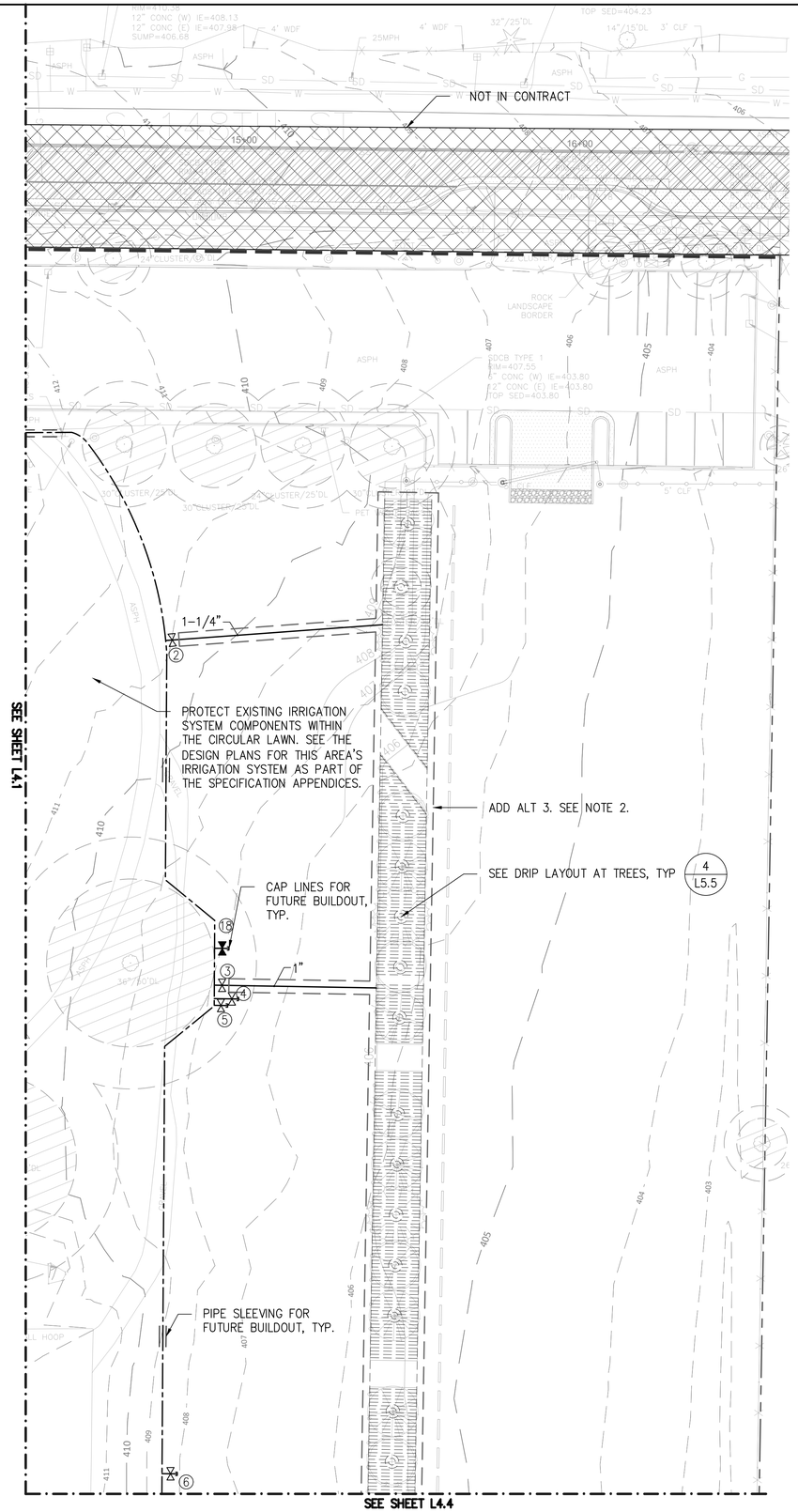
SHEET NAME

IRRIGATION PLAN

SHEET #

L4.1

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N

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1"=20'

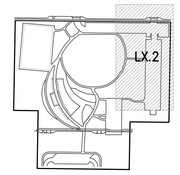
LEGEND

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- LIMIT OF WORK
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NOTES

1. SEE SHEET L4.5 FOR IRRIGATION LEGEND AND SCHEDULES.
2. ADD ALT THREE SHALL CONSIST OF INSTALLING IRRIGATION LINES, MULCH, AND PLANTINGS AS SHOWN. SEE SHEET L4.2 FOR IRRIGATION LAYOUT. BASE BID SHALL CONSIST OF GRADING AS SHOWN ON SHEET L2.2, AND RESTORATION SEEDING OF ANY DISTURBED AREAS

KEY MAP



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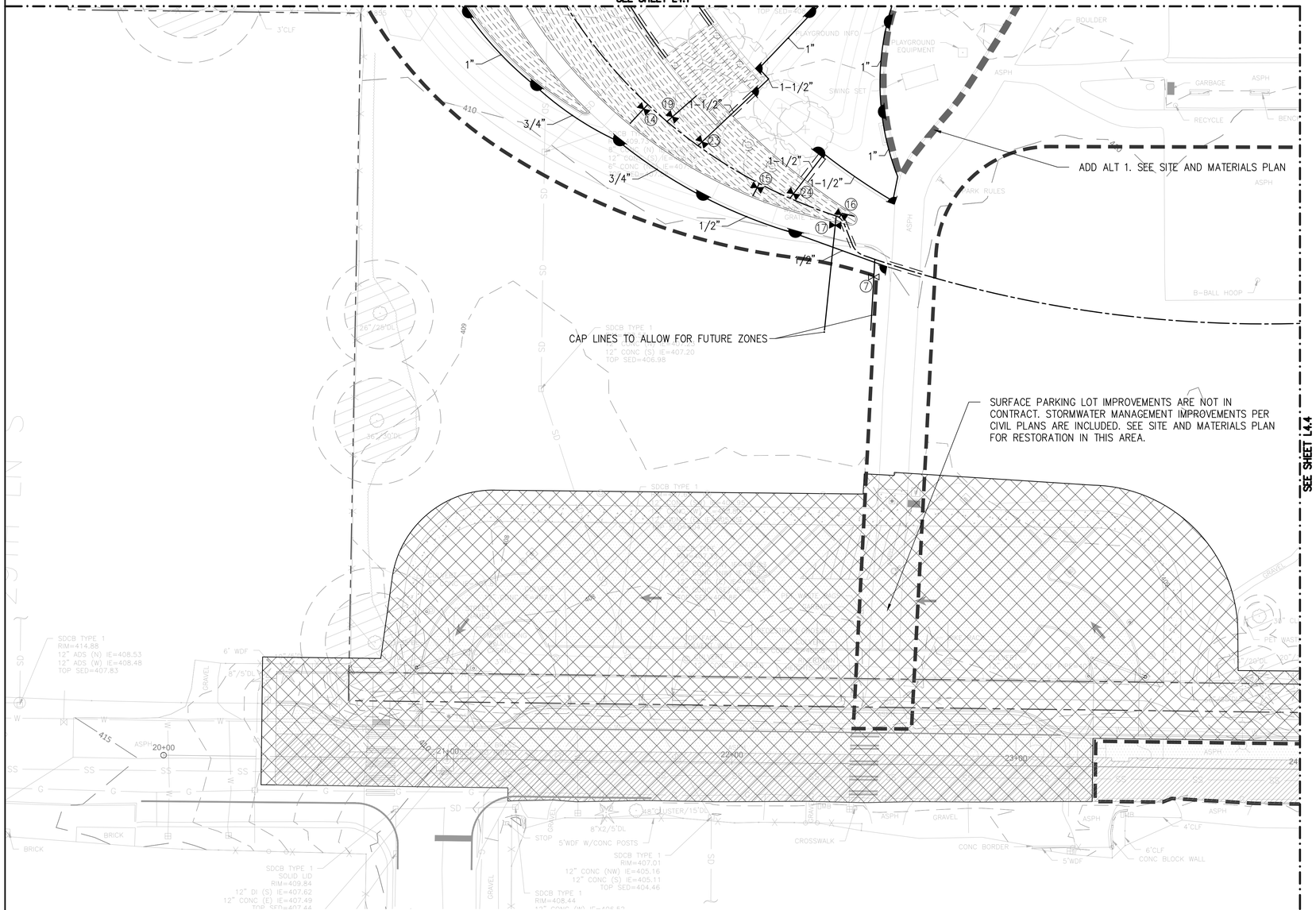
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IRRIGATION PLAN

SHEET #

L4.2

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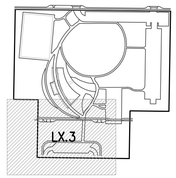
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NOTES

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KEY MAP



IRRIGATION NOTES

N

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1"=20'

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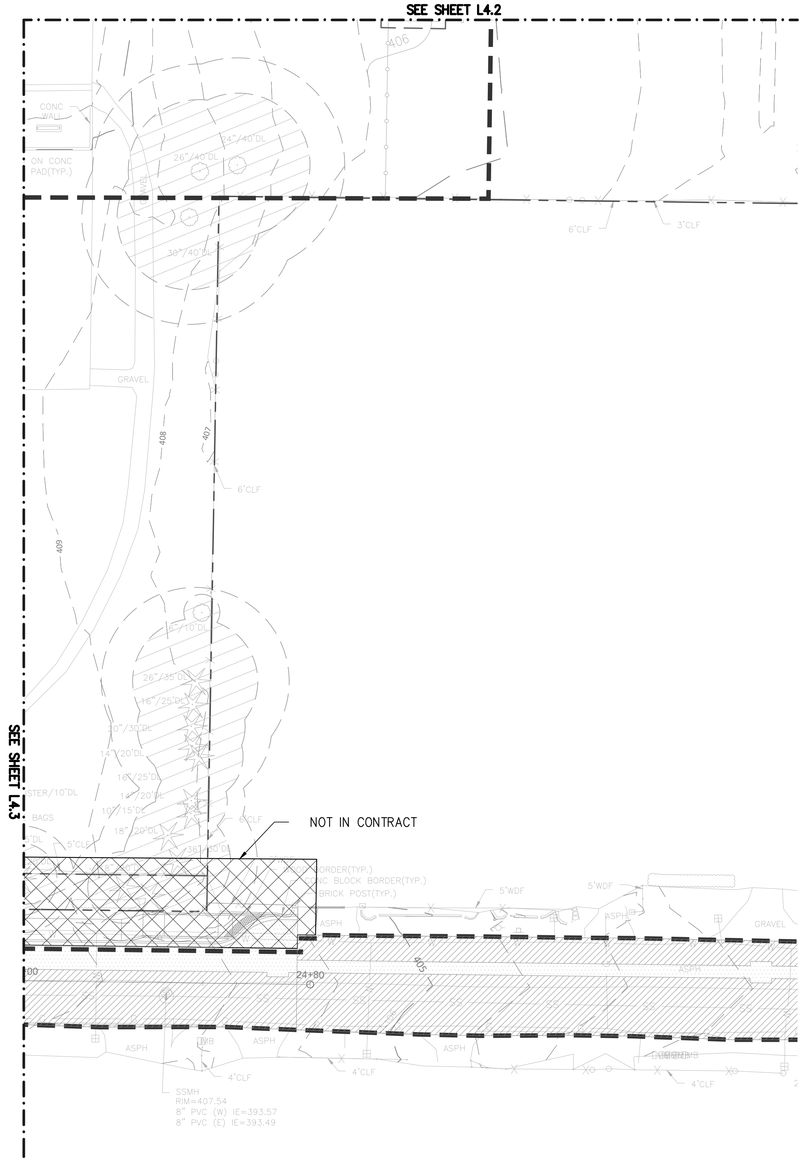
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IRRIGATION PLAN

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L4.3

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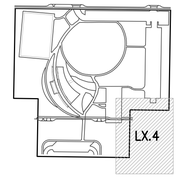
LEGEND

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NOTES

1. SEE SHEET L4.5 FOR IRRIGATION LEGEND AND SCHEDULES.

KEY MAP



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1"=20'

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L4.4

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IRRIGATION SCHEDULE

——-——	IRRIGATION MAIN LINE	3 / L5.4
———	IRRIGATION LATERAL LINE	
= = =	SLEEVING	
- - - - -	SUBSURFACE DRIPLINE	1 / L5.5
POC	POINT OF CONNECTION	1 / L5.3
QC	QUICK COUPLER VALVE	4 / L5.4
⋈	AUTOMATIC CONTROL VALVE	2 / L5.4
⋈	AUTOMATIC CONTROL VALVE FOR DRIP CIRCUIT	6 / L5.5
#	VALVE NUMBER	

MANUFACTURER / MODEL / DESCRIPTION	QTY	PSI	GPM	RADIUS
HUNTER I-20 ROTOR WITH STAINLESS STEEL RISER 3/4" INLET				
RAINBIRD 1800 SAM-VAN				

VALVE SCHEDULE

NUMBER	APPROX GPM/GPH	VALVE SIZE
1	32.5 GPM	1-1/2"
2	17.5 GPM	1-1/4"
3	15 GPM	1"
4	21.25 GPM	1-1/4"
5	21.25 GPM	1-1/4"
6	26.25 GPM	1-1/2"
7	23.75 GPM	1-1/4"
8	.4 GPH	3/4"
9	.4 GPH	3/4"
10	.4 GPH	3/4"
11	.4 GPH	3/4"
12	.4 GPH	3/4"
13	.4 GPH	3/4"
14	.4 GPH	3/4"
15	.4 GPH	3/4"
16	.4 GPH	3/4"
17	.4 GPH	3/4"
18	.4 GPH	3/4"
19	.4 GPH	3/4"
20	.4 GPH	3/4"
21	18 GPM	1-1/2"
22	14 GPM	1-1/2"
23	14 GPM	1-1/2"
24	16 GPM	1-1/2"

IRRIGATION NOTES

1. PRIOR TO STARTING WORK, CONTRACTOR SHALL VERIFY STATIC WATER PRESSURE AT POINT OF CONNECTION, AND SHALL VERIFY THE AMOUNT OF WATER AVAILABLE MEETS OR EXCEEDS PROJECT DEMANDS.

2. CONTRACTOR SHALL REVIEW SEATAC'S RIVERTON HEIGHTS PARK PHASE 2 PLAN SET (7/29/2020) AND AS-BUILT RECORD DRAWINGS FOR EXISTING IRRIGATION SYSTEM. PROTECT EXISTING IRRIGATION SYSTEM AND INDMDUAL COMPONENTS INSTALLED AS PART OF THE PHASE 2 PROJECT UNLESS OTHERWISE NOTED FOR REMOVAL.

3. PIPE LAYOUT IS SCHEMATIC AND SHALL NOT BE CONSTRUED AS ACTUAL ALIGNMENTS. MAIN LINE, VALVE AND SPRINKLER HEAD LOCATIONS ARE TO BE ADJUSTED TO ACCOMMODATE PAVEMENTS, CURBS, UTILIES, LIGHT POLES, ELECTRICAL VAULTS, AND OTHER SITE STRUCTURES AND FURNISHINGS.

4. THE IRRIGATION SYSTEM MUST BE INSTALLED UNDER THE DIRECT SUPERVISION OF A JOURNEY IRRIGATION MECHANIC OR JOURNEY PLUMBER. ALL WORK PERFORMED ON DOMESTIC WATER SYSTEMS MUST BE PERFORMED BY OR UNDER DIRECT SUPERVISION OF A LICENSED PLUMBER.

5. ALL PLUMBING CONNECTIONS SHALL MEET CITY OF SEATAC CODES.

6. NOTIFY OWNER OF ANY DISCREPANCIES BETWEEN EXISTING SITE CONDITIONS AND PROPOSED DESIGN PRIOR TO CONSTRUCTION.

7. ALL CONTROLLER AND VALVE WIRE SPLICES SHALL BE MADE USING APPROVED WATERTIGHT CONNECTORS PER THE SPECIFICATIONS.

8. PIPING MAY BE INSTALLED IN COMMON TRENCHES. WHERE MORE THAN ONE PIPE SHARE THE SAME TRENCH, PIPES SHALL BE SEPARATED BY 6" HORIZONTAL SEPARATION.

9. ALL IRRIGATION COMPONENTS (EXCEPT PIPES AND WIRING WITHIN SLEEVES UNDER PAVEMENTS) ARE TO BE LOCATED WITHIN LANDSCAPE AREAS.

10. ALL ELECTRICAL WIRES, VALVE WIRES AND CONDUIT NECESSARY TO INSTALL CONNECTIONS TO AND FROM CONTROLLER AND REMOTE CONTROL VALVES IS THE RESPONSIBILITY OF THE CONTRACTOR.

11. REFER TO IRRIGATION DETAILS AND SPECIFICATIONS FOR RELATED WORK AND ADDITIONAL INFORMATION.

12. CONTRACTOR IS RESPONSIBLE FOR MARKING AND PROTECTING ALL UTILITIES ENCOUNTERED, AND FOR RESTORING ANY UTILITIES BROKEN DURING THE PROCESS OF INSTALLINGTHE IRRIGATION SYSTEM.

13. THE INTENT OF THIS IRRIGATION SYSTEM IS TO PROVIDE THE MINIMUM AMOUNT OF WATER TO MAINTAIN GOOD PLANT HEALTH, APPEARANCE AND REASONABLE GROWTH. THE AMOUNT OF SUPPLEMENTAL WATER A PLANT REQUIRES IS DEPENDENT ON SOIL TYPE, PLANT MATERIAL, ROOTING DEPTH, CLIMATE, SEASONAL CHANGES, SLOPES, MOUNDS, SUN, SHADE AND WIND. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ADJUST THE IRRIGATION SCHEDULE AND EV VALUES AS NEEDED. IN ADDITION, THE CONTRACTOR SHALL PROVIDE SUPPLEMENTAL WATER TO ACCOMMODATE SPECIAL WATERING NEEDS OF PLANT MATERIAL THROUGH THE MAINTENANCE PERIOD. ACTUAL STATION RUN TIMES MAY VARY IN ACCORDANCE WITH VARYING SITE CONDITIONS.

14. NO EXTRA PAYMENT WILL BE MADE WHERE PIPING MUST BE OFFSET TO AVOID EXISTING CONDITIONS, OTHER WORK OR WHERE CHANGES ARE NECESSARY TO FACILITATE INSTALLATION.

15. CONTRACTOR SHALL ADJUST THE PLACEMENT OF THE DRIPLINE LAYOUT AS PER ACTUAL FIELD CONDITIONS TO ACHIEVE FULL COVERAGE OF ALL PLANTED AREAS. THE CONTRACTOR WILL BE RESPONSIBLE FOR INSTALLING ADDITIONAL DRIPLINE, AS NEEDED, TO PROVIDE ADEQUATE COVERAGE, AT NO ADDITIONAL COST TO THE CLIENT. REFER TO IRRIGATION EQUIPMENT LEGEND FOR MAXIMUM ALLOWED VERTICAL DRIPLINE SPACING.

16. IRRIGATION SYSTEM SHALL BE OPERATIONAL & COVERAGE APPROVED BY THE OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION OF PLANTING MATERIAL.

17. THE CONTRACTOR SHALL ADJUST THE PRESSURE REGULATION ON EACH REMOTE CONTROL VALVE SO THAT THE SPRINKLER HEAD FARTHEST AND HIGHEST IN ELEVATION FROM ITS RESPECTIVE CONTROL VALVE OPERATES WITHIN THE OPERATING PRESSURE.

18. DRIPLINE EMITTER FLOW RATE, EMITTER SPACING AND LATERAL SPACING IS BASED ON TYPICAL SOILS. THE CONTRACTOR SHALL MAKE ANY MODIFICATION TO EMITTER FLOW RATE, EMITTER SPACING, AND LATERAL SPACING AS REQUIRED TO COMPLY WITH MANUFACTURER'S RECOMMENDATIONS FOR AN EVEN WETTED PATTERN, BASED ON ACTUAL SOIL ANALYSIS. REFER TO DRIPLINE MANUFACTURER RECOMMENDATIONS FOR ADDITIONAL INFORMATION. FINAL EMITTER SPACING AND FLOW RATE TO BE APPROVED BY THE CLIENT REPRESENTATIVE.

19. DRAINAGE OF IRRIGATION WATER THROUGH DRIP EMITTERS WILL NOT BE ALLOWED. DURING THE COURSE OF CONSTRUCTION, THE CONTRACTOR SHALL INSTALL ADDITIONAL IN-LINE CHECK VALVES AS REQUIRED IN ANY AREA WHERE EMISSION DEVICES SHOW SIGNS OF DRAINAGE IF THE IRRIGATION SYSTEM HAS UPHELD FLOW IN AN 'ON TO OFF'POSITION. INSTALLATION OF ADDITIONAL IN-LINE CHECK VALVES SHALL BE INCLUDED IN THE BID PRICE WITHOUT ADDITIONAL COST TO THE CLIENT.

20. CONTRACTOR SHALL ADJUST THE DRIPLINE LAYOUT, WHEN PLANTER SLOPE IS GREATER THAN 5 PERCENT, TO PROVIDE LATERAL ROW SPACING THAT IS 25 PERCENT GREATER WITHIN THE BOTTOM ONE-THIRD OF THE SLOPE.

21. INSTALL DRIP FILTERS AFTER EACH DRIP ZONE VALVE. INSTALL PRESSURE REGULATORS DOWNSTREAM OF DRIPLINE VALVES FOR ZONES WHERE PRESSURE EXCEEDS 50 PSI. DRIP ZONES ARE DESIGNED FOR 45 PSI. INSTALL MANUAL FLUSH VALVES AND OPERATION INDICATORS FOR EACH DRIP ZONE AS REQUIRED BY THE MANUFACTURER.

22. IRRIGATION CONTRACTOR SHALL INSTALL A NEW WIRELESS SOLAR SYNC SENSOR ON EXTERIOR WALL IN FULL SUN EXPOSURE AND UNOBSTRUCTED RAINFALL. SENSOR MUST BE NO FURTHER THAN 100 FEET FROM CONTROLLER. SYNC WITH CONTROLLER "A".

AVAILABLE STATIC WATER PRESSURE AT IRRIGATION SOURCE CONNECTION: APPROX. 70 PSI

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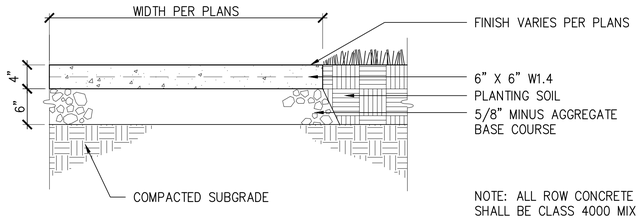
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IRRIGATION SCHEDULES

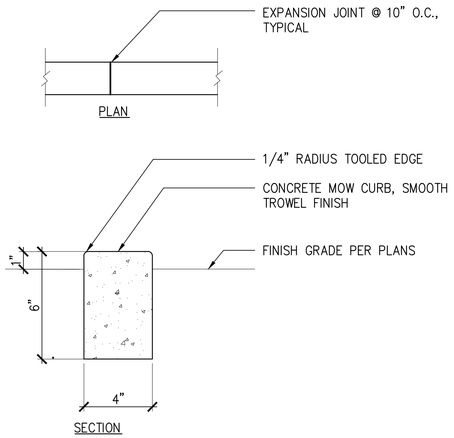
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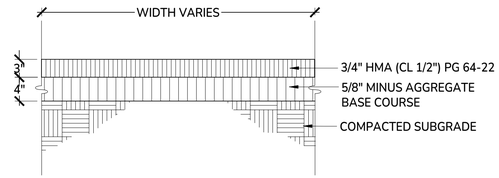
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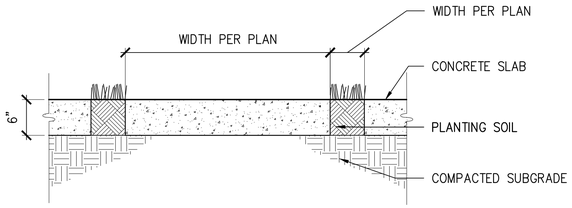
1 PEDESTRIAN PAVEMENT
NTS



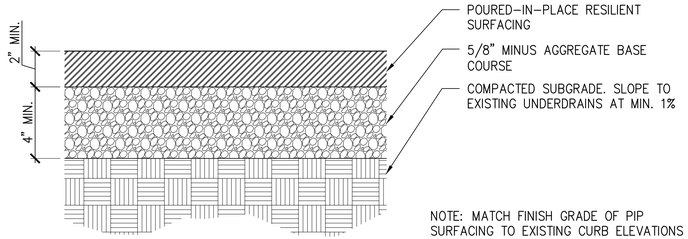
2 CONCRETE MOW STRIP
NTS



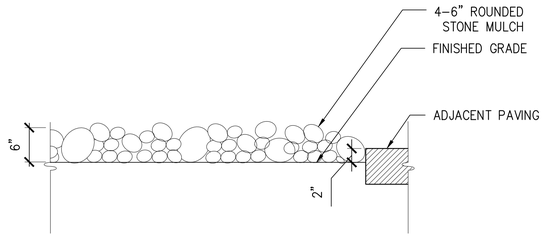
3 ASPHALT PAVING
NTS



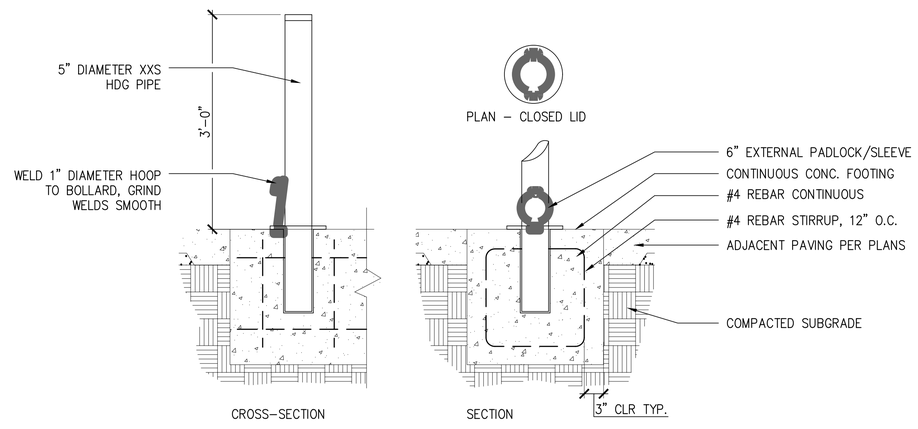
4 STEPPING STONES
NTS



5 POURED-IN-PLACE RESILIENT SURFACING
NTS



6 STONE MULCH
NTS



7 REMOVABLE BOLLARD
NTS

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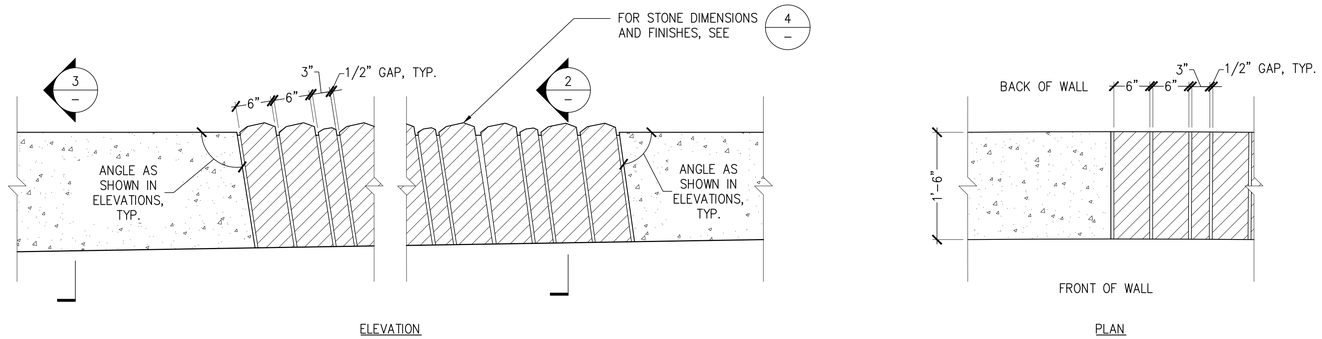
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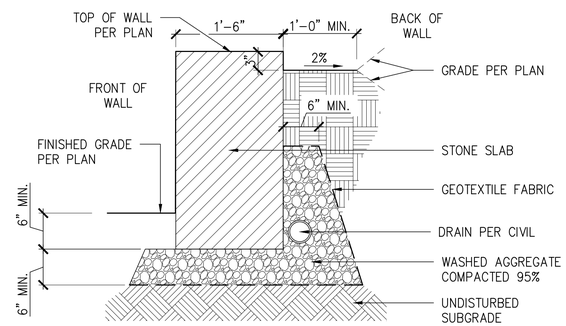
SHEET NAME
HARDSCAPE DETAILS

SHEET #
L5.0

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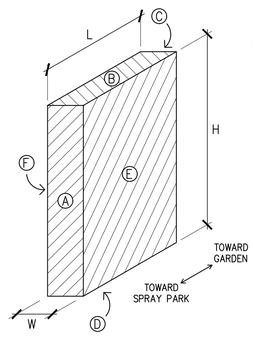


1 MIXED MATERIALS RETAINING WALL/SEAT WALL ELEVATION
NTS



NOTE: SEE STRUCTURAL WALL DETAIL SHEET S3.1

2 STONE RETAINING WALL SECTION
NTS



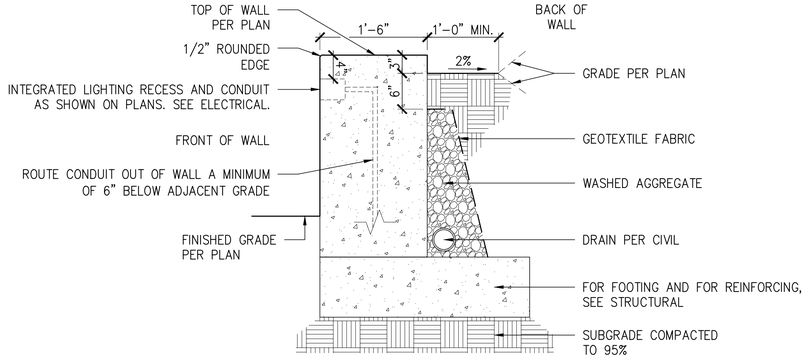
OPPOSING FACES
A ↔ C
B ↔ D
E ↔ F

Ⓕ = FACE NAME

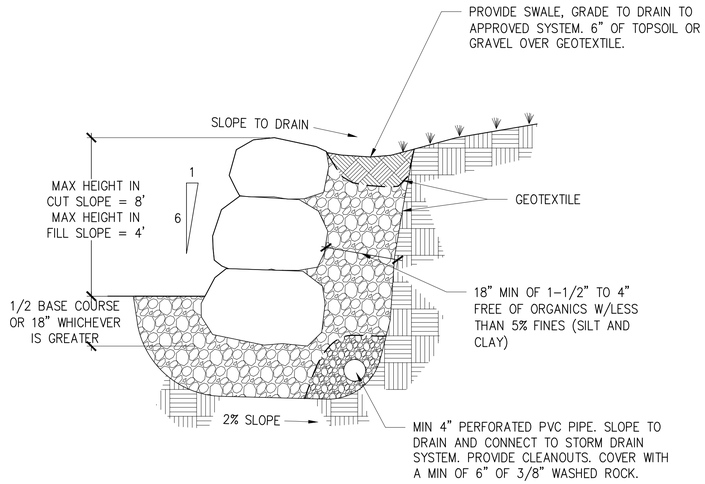
		DIMENSIONS (IN)			FACE FINISHES					
	QTY	H	L	W	A	B	C	D	E	F
STONE 1	16	22	18	3	SF	SF	SF	S/SF	S	S
STONE 2	33	"	"	6	"	"	"	"	"	"
STONE 3	16	26	"	3	"	"	"	"	"	"
STONE 4	24	"	"	6	"	"	"	"	"	"
STONE 5	12	32	"	3	"	"	"	"	"	"
STONE 6	28	"	"	6	"	"	"	"	"	"
STONE 7	11	36	"	3	"	"	"	"	"	"
STONE 8	17	"	"	6	"	"	"	"	"	"
STONE 9	3	42	"	3	"	"	"	"	"	"
STONE 10	10	"	"	6	"	"	"	"	"	"

SF = SPLIT-FACE
S = SAWN
S/SF = SAWN OR SPLIT-FACE FINISH IS ACCEPTABLE

4 STONE SLAB DIMENSIONS AND FINISHES
NTS



3 CONCRETE RETAINING WALL SECTION
NTS



5 ROCKERY WALL
NTS

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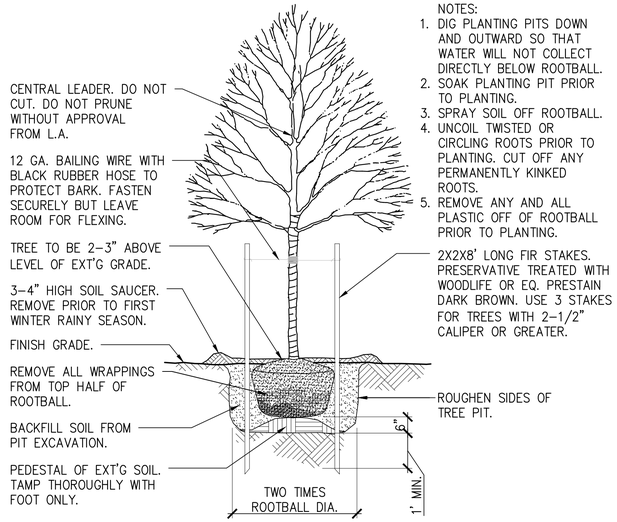
BID SET

SHEET NAME

WALLS DETAILS

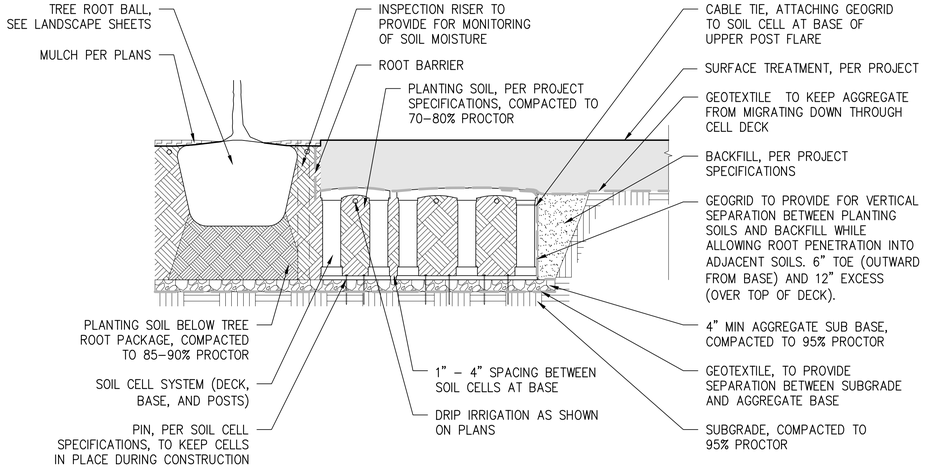
SHEET #

L5.1

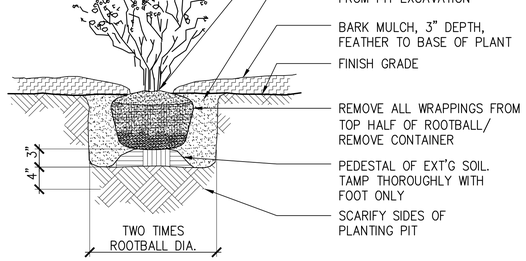


NOTES:
1. DIG PLANTING PITS DOWN AND OUTWARD SO THAT WATER WILL NOT COLLECT DIRECTLY BELOW ROOTBALL.
2. SOAK PLANTING PIT PRIOR TO PLANTING.
3. SPRAY SOIL OFF ROOTBALL.
4. UNCOIL TWISTED OR CIRCLING ROOTS PRIOR TO PLANTING. CUT OFF ANY PERMANENTLY KINKED ROOTS.
5. REMOVE ANY AND ALL PLASTIC OFF OF ROOTBALL PRIOR TO PLANTING.

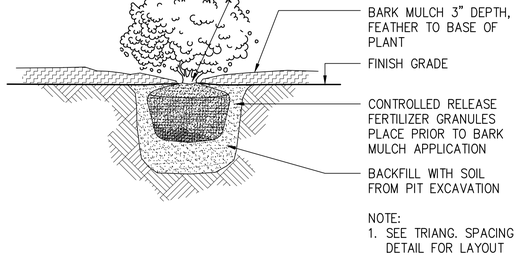
1 DECIDUOUS TREE
NTS



2 DECIDUOUS TREE WITH SOIL CELLS
NTS

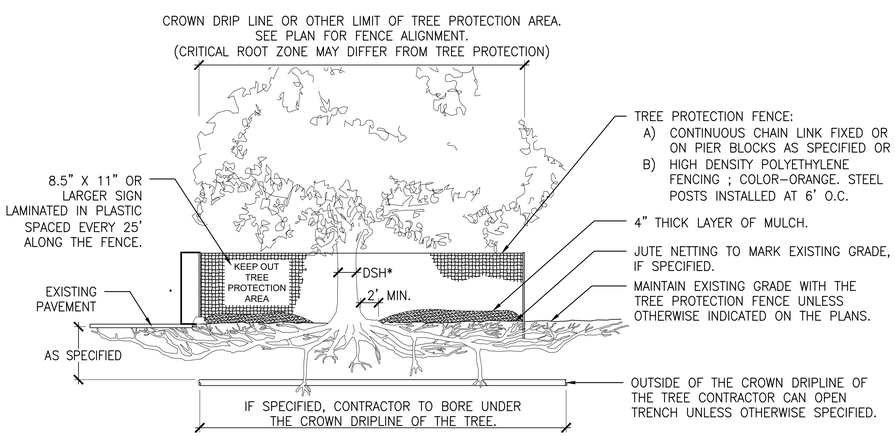


3 SHRUB
NTS



NOTE:
1. SEE TRIANG. SPACING DETAIL FOR LAYOUT

4 GROUND COVER
NTS



NOTES:

1. SEE GENERAL NOTES AND SPECIFICATIONS FOR ADDITIONAL TREE PROTECTION REQUIREMENTS.
2. SEE SPECIFICATIONS FOR WATERING REQUIREMENTS.
3. ALL PRUNING SHALL BE PERFORMED BY APPROVED ISA CERTIFIED ARBORIST.
4. NO EQUIPMENT SHALL OPERATE INSIDE THE PROTECTIVE ZONE FENCE AREA INCLUDING DURING FENCE INSTALLATION AND REMOVAL.
5. EQUIPMENT, TEMPORARY BUILDINGS, OR STORAGE SHALL NOT OCCUR WITHIN 10' OF TREE PROTECTION FENCE OR WITHIN SPECIFIED CRITICAL ROOT ZONE.
6. SEE SITE AND CIVIL PLANS FOR ANY MODIFICATIONS WITHIN THE TREE PROTECTION AREA.
7. DSH* – DIAMETER OF TRUNK AT STANDARD HEIGHT.

5 TREE PROTECTION AND FENCING
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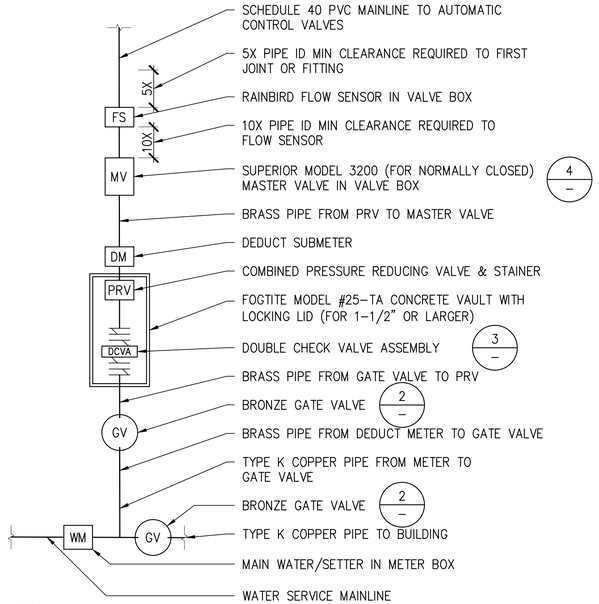
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SHEET NAME
PLANTING DETAILS

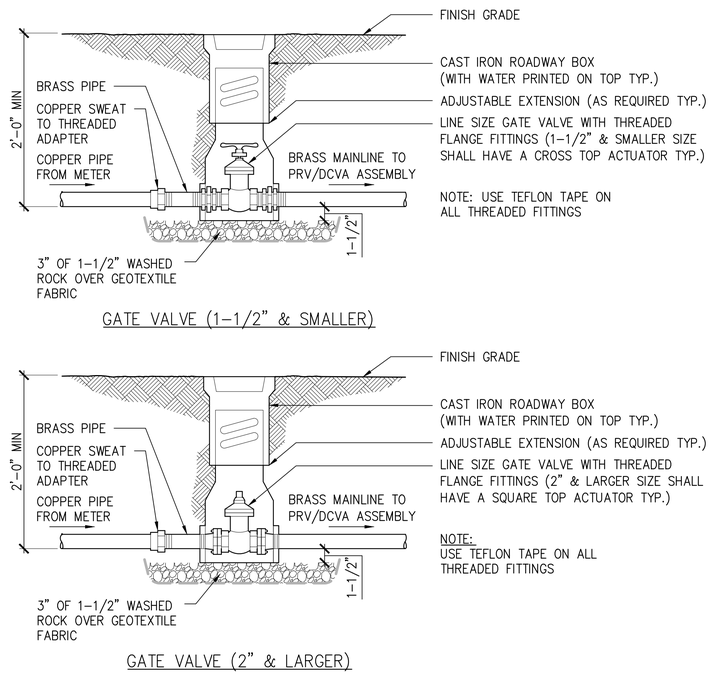
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L5.2

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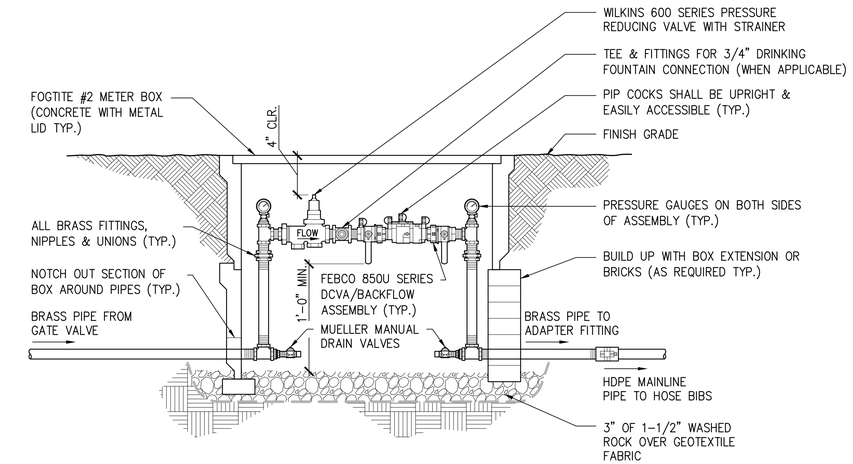


NOTES:
1. ALL COMPONENTS OF SCHEMATIC POINT OF CONNECTION SHALL BE INSTALLED PER SPR STANDARD DETAILS.
2. BACKFLOW PREVENTION DEVICE INSTALLATIONS REQUIRE INSPECTION, TESTING, AND CERTIFICATION BY INSPECTION SERVICES.

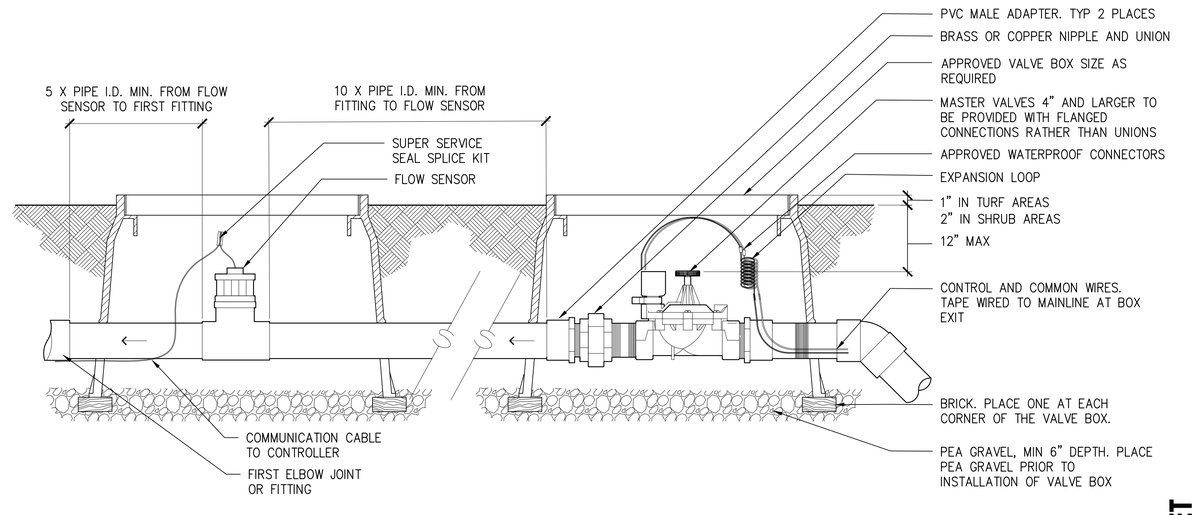
1 SCHEMATIC POINT OF CONNECTION
NTS



2 GATE VALVE
NTS



3 PRV/DCVA ASSEMBLY
NTS



4 MASTER VALVE & FLOW SENSOR
NTS

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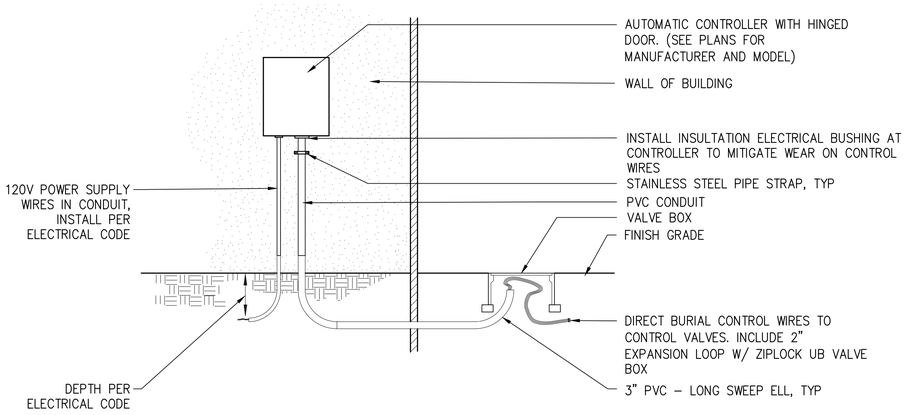
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SHEET NAME
IRRIGATION DETAILS

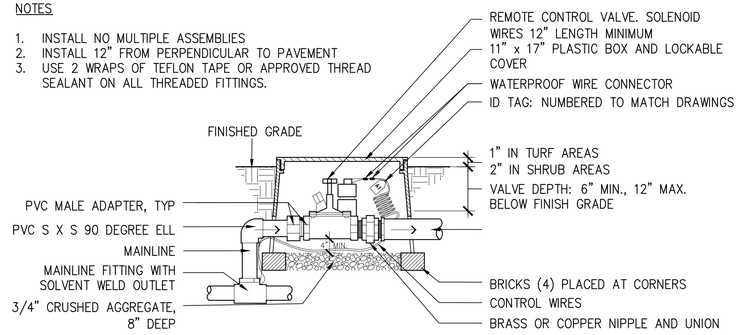
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L5.3



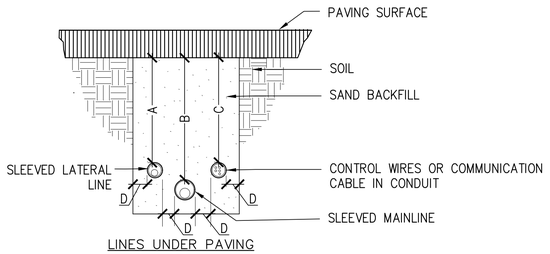
1 IRRIGATION CONTROLLER
NTS

NOTES

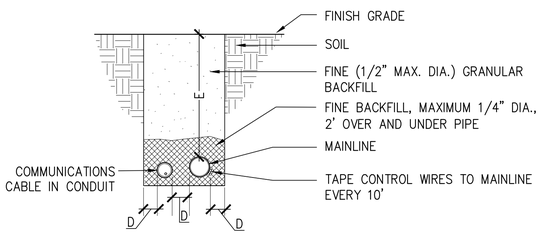
1. INSTALL NO MULTIPLE ASSEMBLIES
2. INSTALL 12" FROM PERPENDICULAR TO PAVEMENT
3. USE 2 WRAPS OF TEFLON TAPE OR APPROVED THREAD SEALANT ON ALL THREADED FITTINGS.



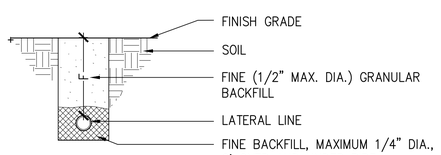
2 AUTOMATIC CONTROL VALVE
NTS



LINES UNDER PAVING



MAINLINE & WIRES IN PLANTING AREA



LATERAL LINE IN PLANTING AREA

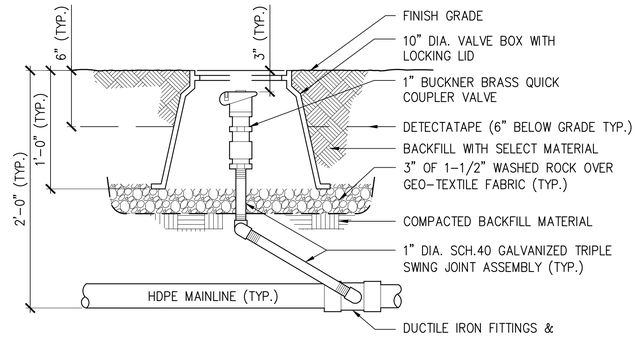
NOTES

1. TRENCHES SHALL BE WIDE ENOUGH TO ALLOW 4" MINIMUM HORIZONTAL CLEARANCE BETWEEN PARALLEL PIPES.
2. SNAKE PLASTIC PIPES FROM SIDE TO SIDE WITHIN TRENCH TO ALLOW FOR MOVEMENT.
3. TIE A 20" LOOP IN ALL WIRING AT CHANGES OF DIRECTION. UNTIE PRIOR TO BACKFILLING TRENCHES.

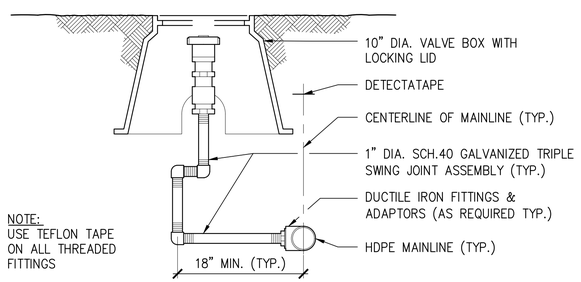
DEPTH KEY:

LINE SIZE	DEPTHS					
	A	B	C	D	E	F
<2" I.D.	–	24"	24"	4"	18"	–
<3" I.D.	–	–	–	–	–	12"
<3" I.D.	24"	30"	30"	4"	24"	–
>3" I.D.	–	–	–	–	–	18"
>3" I.D.	30"	–	–	4"	–	–
>4" I.D.	–	36"	36"	4"	30"	–

3 IRRIGATION LINE DEPTHS
NTS



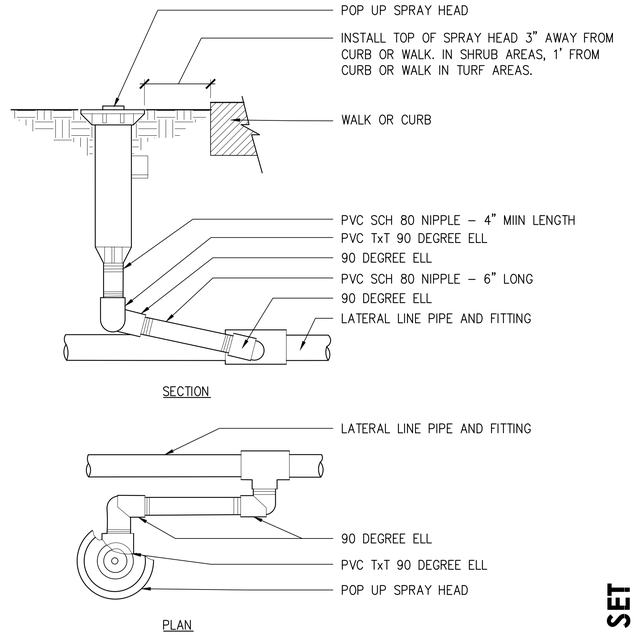
SIDE VIEW



NOTE:
USE TEFLON TAPE ON ALL THREADED FITTINGS

FRONT VIEW

4 QUICK COUPLER VALVE
NTS



SECTION

PLAN

5 SPRAY HEAD
NTS

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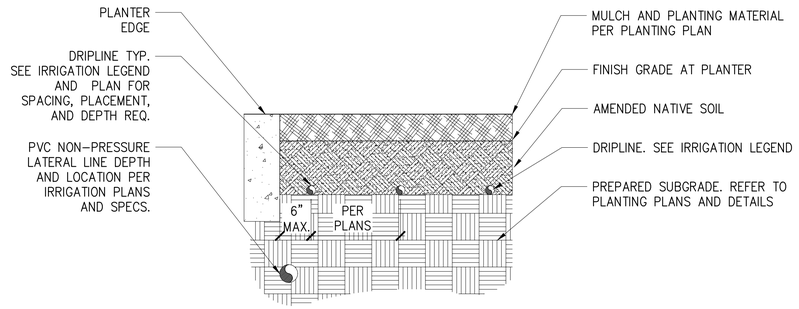
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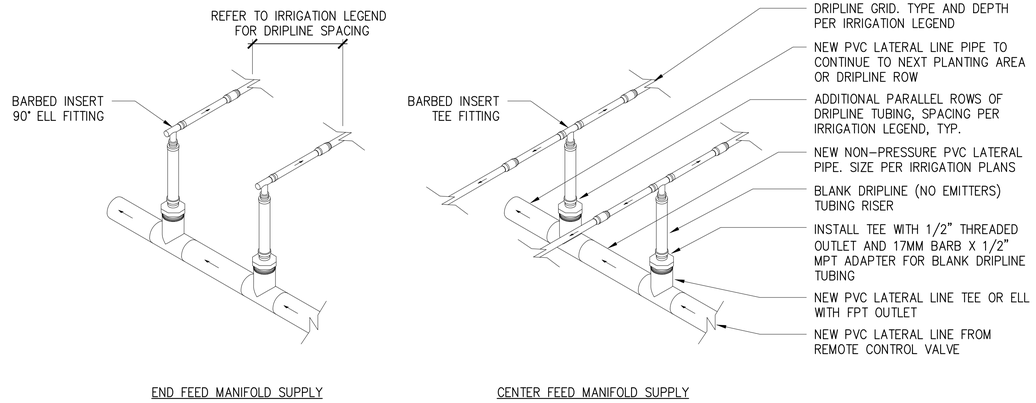
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SHEET NAME
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SHEET #
L5.4



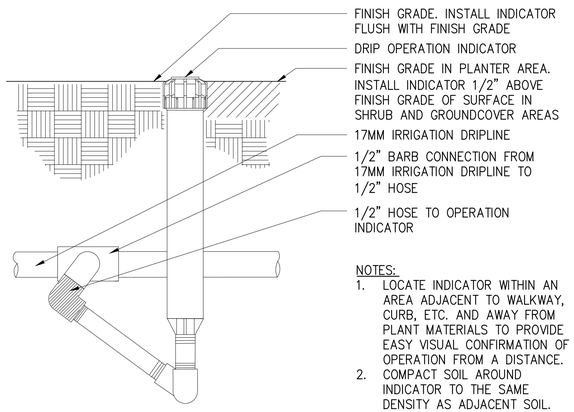
1 SUBSURFACE DRIPLINE
NTS



END FEED MANIFOLD SUPPLY

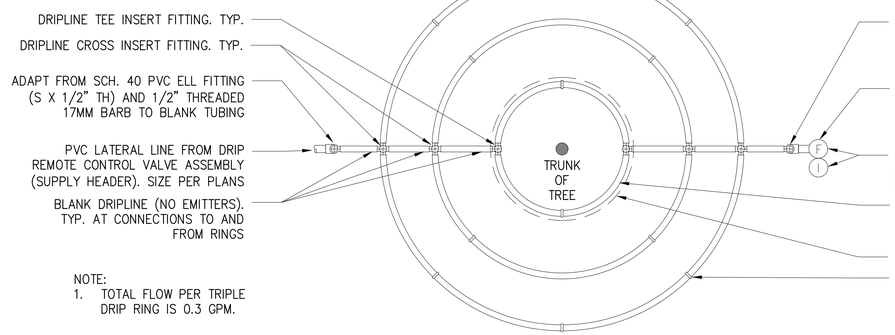
CENTER FEED MANIFOLD SUPPLY

2 PVC LATERAL TO DRIP LINE CONVERSION
NTS



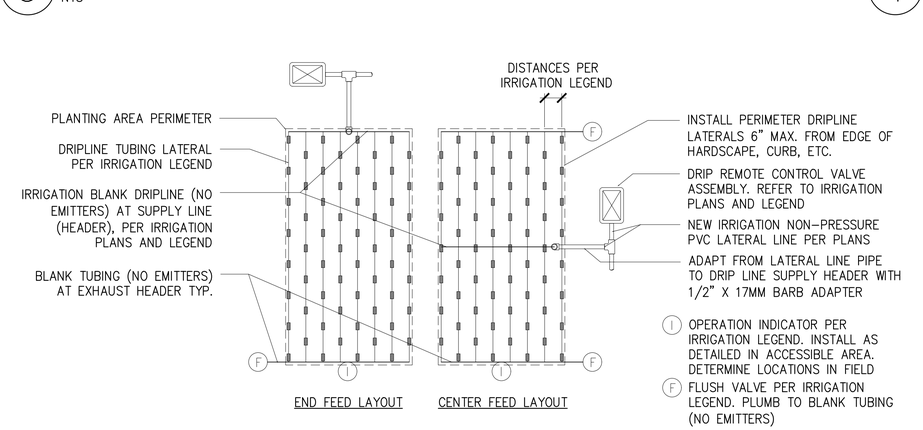
NOTES:
1. LOCATE INDICATOR WITHIN AN AREA ADJACENT TO WALKWAY, CURB, ETC. AND AWAY FROM PLANT MATERIALS TO PROVIDE EASY VISUAL CONFIRMATION OF OPERATION FROM A DISTANCE.
2. COMPACT SOIL AROUND INDICATOR TO THE SAME DENSITY AS ADJACENT SOIL.

3 DRIP OPERATION INDICATOR
NTS



NOTE:
1. TOTAL FLOW PER TRIPLE DRIP RING IS 0.3 GPM.

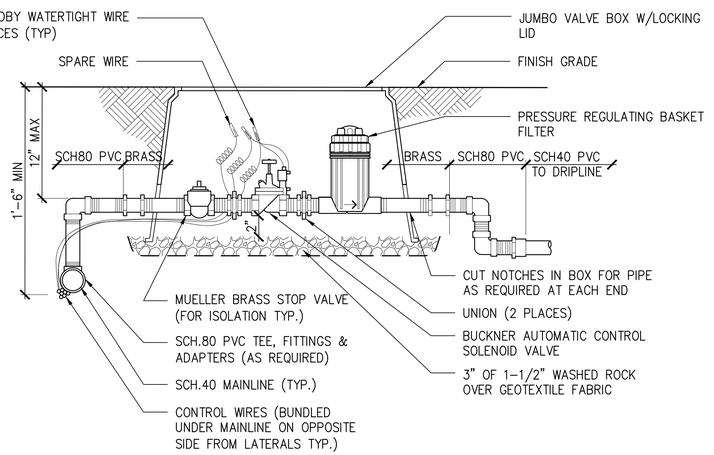
4 TREE DRIP RING LAYOUT
NTS



END FEED LAYOUT

CENTER FEED LAYOUT

5 DRIPLINE LAYOUT (TYPICAL)
NTS



6 AUTOMATIC CONTROL VALVE FOR DRIP CIRCUIT
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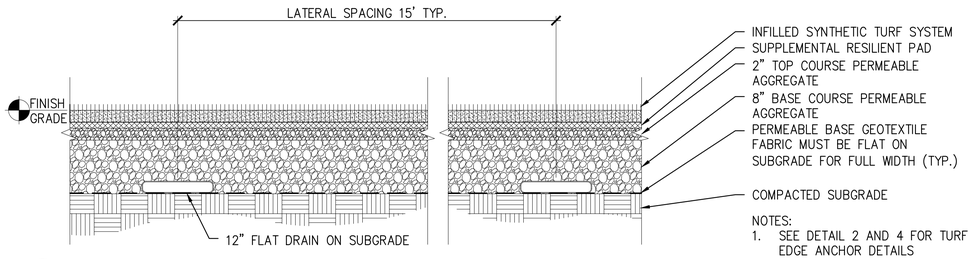
BID SET

SHEET NAME

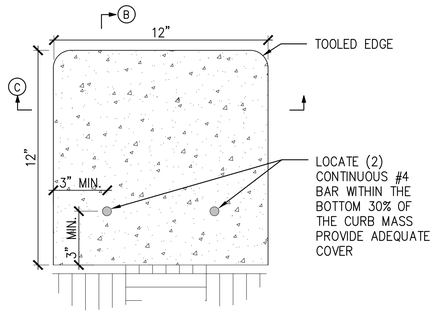
IRRIGATION DETAILS

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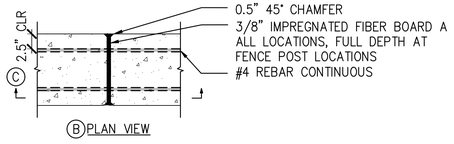
L5.5



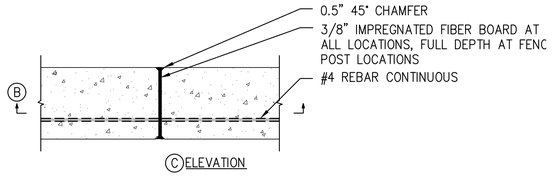
1 SYNTHETIC TURF FIELD
NTS



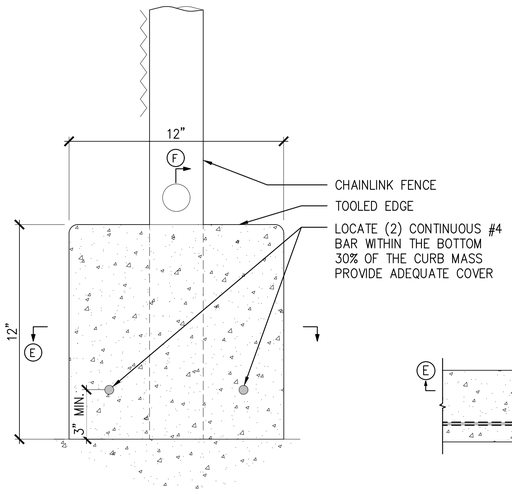
A SECTION



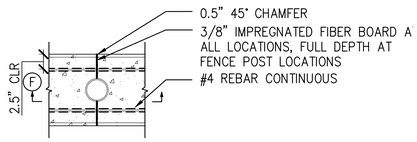
B PLAN VIEW



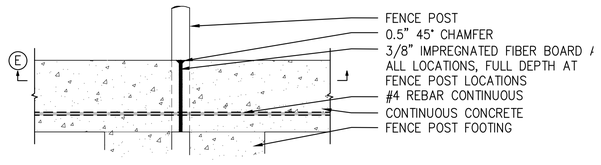
C ELEVATION



D SECTION

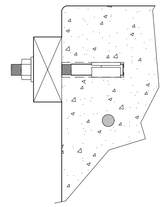


E PLAN VIEW

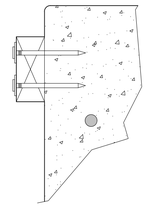


F SECTION

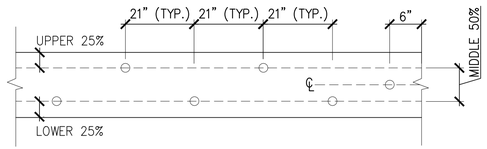
3 4' FENCE IN CONCRETE CURB AND EXPANSION JOINT
NTS



WEDGE ANCHOR

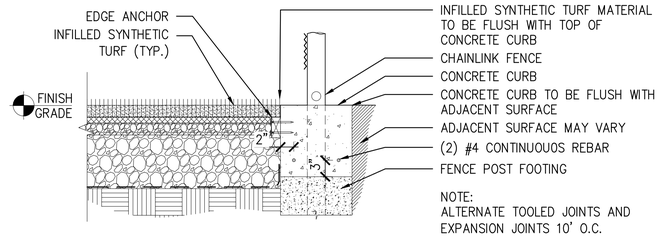


POWER LOAD RAM-SET

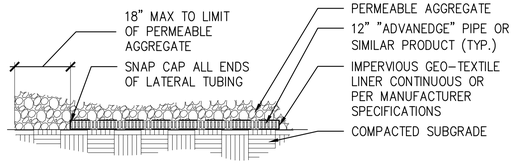


NOTES:
1. THE PLASTIC EDGE ANCHOR MAY BE TEMPORARILY SET WITH POWER-LOADS PLACED AT THE CONTRACTORS OPTION TO ASSIST IN ESTABLISHING THE PROPER LINE AND GRADE. THIS TEMPORARY HARDWARE MAY REMAIN AFTER FINAL INSTALLATION.
2. THE CONTRACTOR MAY CHOOSE TO UTILIZE STEEL POWER-LOAD DRIVEN OR RAM-SET CONCRETE ANCHOR NAILS, MINIMUM SHANK DIAMETER 5/32", MINIMUM HEAD/WASHER DIAMETER 3/8", SUFFICIENT LENGTH TO ENSURE A MINIMUM 2" EMBEDMENT. INDIVIDUAL ANCHORS SHALL DEVELOP A MINIMUM 450 LB SHEAR, 350 LB TENSION IN 4,000 PSI CONCRETE AT 2" EMBEDMENT.
3. ONCE INITIAL LINE AND GRADE HAS BEEN ESTABLISHED, INSTALL THE SPECIFIED RAM-SET OR POWER-LOAD DRIVEN CONCRETE ANCHORING NAILS IN A MANNER CONSISTENT WITH THE APPROVED MANUFACTURERS PRINTED INSTRUCTION AND SPECIFIED SPACING.
4. WEDGE ANCHOR TO BE SET AT MIDDLE 50% OF EACH BOARD. 30" O.C. MAX., 4-6" FROM ENDS.
5. MINIMUM REQUIREMENTS FOR CONCRETE ANCHOR NAIL INSTALLATION DEPTH OF EMBEDMENT: 2" OR AS RECOMMENDED BY THE ANCHOR SUPPLIER, WHICHEVER IS GREATER. HORIZONTAL SPACING: NO GREATER THAN 21" ON CENTER AND 6" FROM END OF ANY LENGTH OF LUMBER. STAGGER THE SPACING OF EACH ANCHOR UP AND DOWN WITHIN THE MIDDLE ONE-HALF OF THE FACE OF THE RECYCLED EDGE ANCHOR.

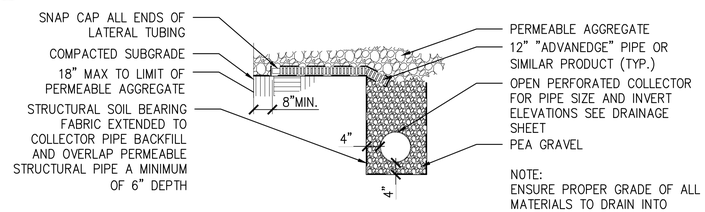
2 SYNTHETIC TURF EDGE ANCHOR
NTS



4 FIELD EDGE ANCHOR AT CONCRETE CURB
NTS



5 FIELD SUBSURFACE DRAINAGE LATERAL
NTS



6 FIELD SUBSURFACE DRAINAGE COLLECTOR CONNECTION
NTS

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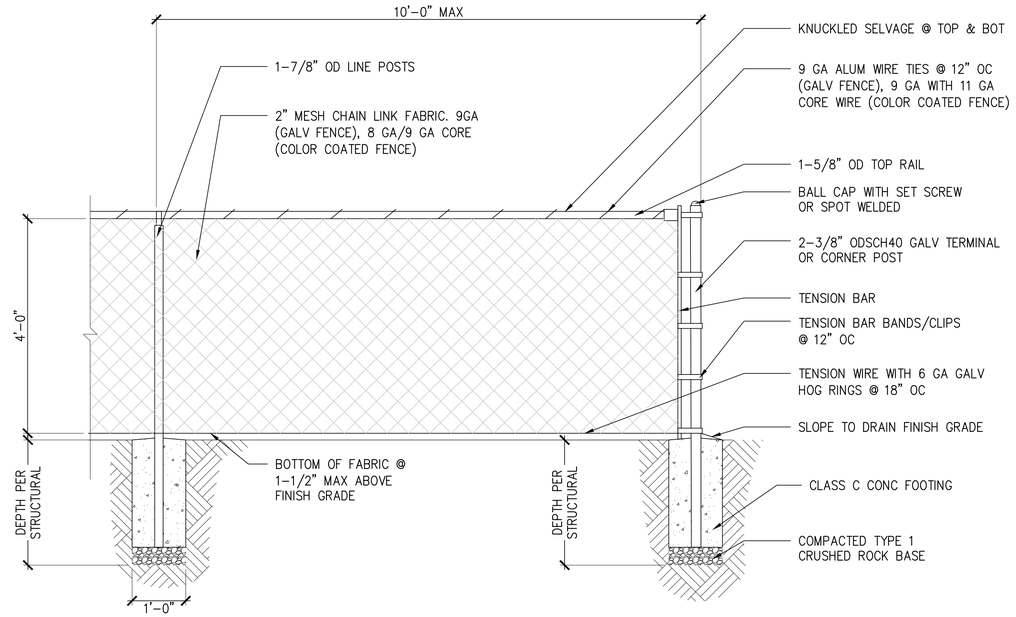
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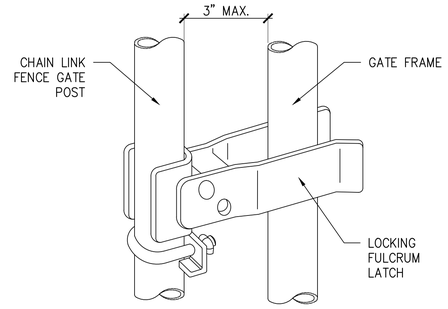
SHEET NAME
FIELD DETAILS

SHEET #
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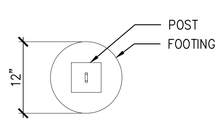
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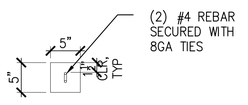
1 CHAIN LINK FENCE
NTS



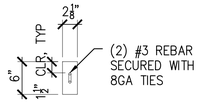
2 FULCRUM LATCH
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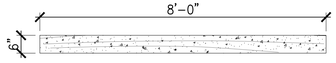
PLAN – FOOTING



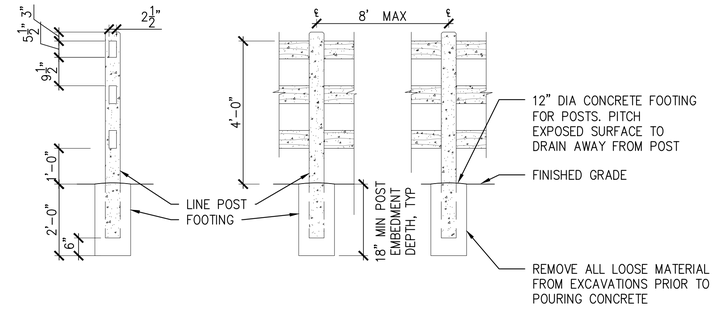
PLAN – LINE POST



CROSS SECTION – RAIL

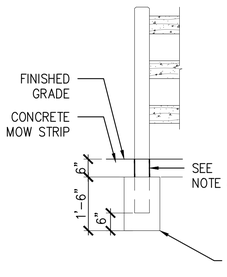


ELEVATION – RAIL

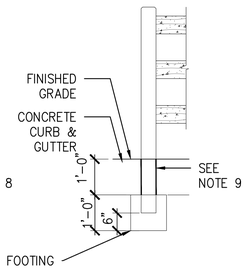


SECTION – RAIL FENCE

ELEVATION – RAIL FENCE



SECTION – RAIL FENCE AT CONCRETE MOW STRIP



SECTION – RAIL FENCE AT CONCRETE CURB & GUTTER

3 SPLIT RAIL FENCE
NTS

NOTES:

1. CONCRETE SHALL BE NORMAL WEIGHT HAVING SAND AND GRAVEL OR CRUSHED AGGREGATE. MIXED ITH ASTM-C150 TYPE I OR III PORTLAND CEMENT TO MEET THE MINIMUM COMPRESSION STRENGTH AS FOLLOWS:
   PANELS & POST: 4500 PSI @ 28 DAYS
   FOOTINGS & PIERS: 3000 PSI @ 28 DAYS
   SIDEWALK & NONSTRUCTURAL: 3000 PSI @ 28 DAYS.
2. WATER USED FOR CONCRETE SHALL BE CLEAN WATER AND FREE OF ANY SUBSTANCES.
3. FRESH POURED CONCRETE SHALL BE TAMPED INTO PLACE USING STEEL RAMMER, SLICING TOOLS, OR MECHANICAL VIBRATOR, UNTIL THOROUGHLY COMPACT AND WITHOUT VOIDS.
4. DEFORMED TYPE BARS SHALL CONFORM TO ASTM A615, GRADE 60 PLACED AS SHOWN ON DRAWINGS.
5. STEEL REINFORCING WIRE SHALL MEET U.S. STEEL WIRE GAGUE, ASTM A82. FY=70,000 PSI MIN. GALVANIZED.
6. ALL TIES AND STIRRUPS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A615 GRADE 40.
7. REINFORCEMENT STEEL SHALL BE FABRICATED IN ACCORDANCE WITH THE CRSI STANDARD DETAIL.
8. IF FENCE IS POURED IN CONCRETE MOW STRIP, INSTALL ½" X 6" POLYSTYRENE EXPANSION JOINT ALL AROUND EACH POST.
9. IF FENCE IS POURED IN CONCRETE CURB AND GUTTER, INSTALL ½" X 12" POLYSTYRENE EXPANSION JOINT ALL AROUND EACH POST.
10. INSTALLING REINFORCEMENT WITH THE FOLLOWING CLEARANCE BETWEEN REINFORCING STEEL AND FACE OF CONCRETE:
    FOOTING, PIER OR BEAM BOTTOM (3')
    EARTH-FORMED PIER OR BEAM SIDE (2')
    FORMED FOOTING, PIER OR BEAM SIDES, EXPOSED (1')
    PRECAST EXPOSED TO WEATHER: PANELS (3/4") AND POSTS (1-1/4")

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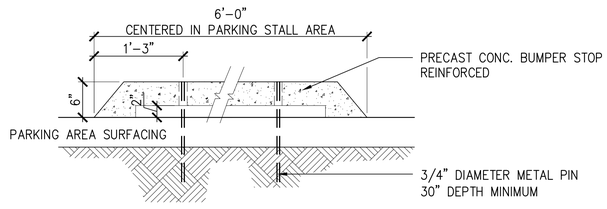
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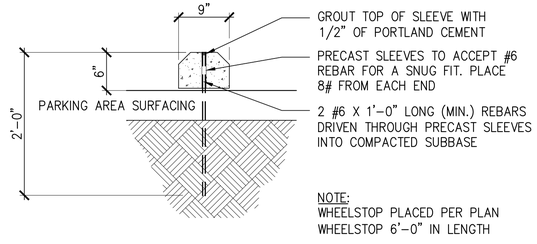
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L5.7

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1 NOT USED
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2 CONCRETE WHEELSTOP
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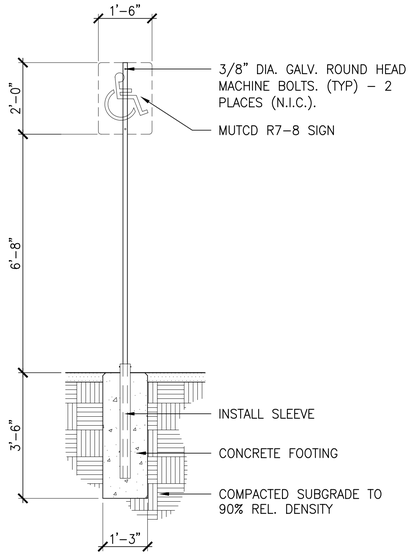
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DATE	OCTOBER 28, 2026

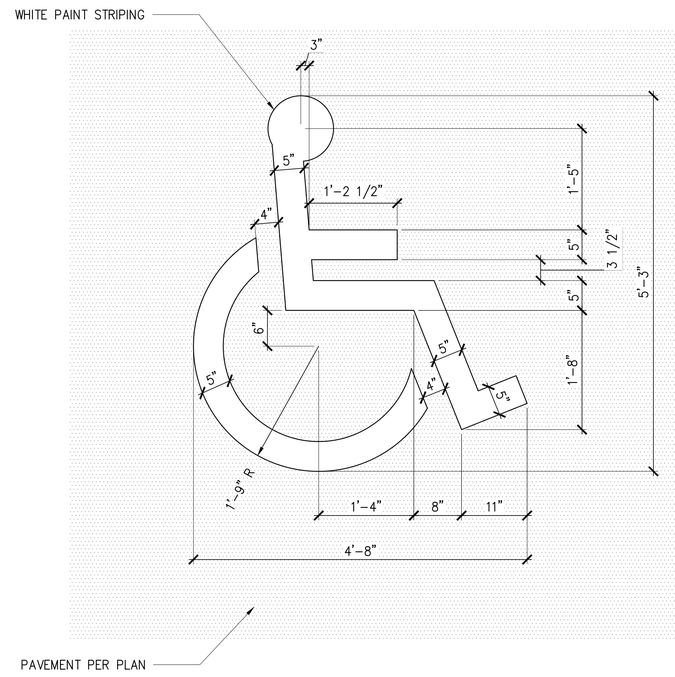
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MISCELLANEOUS DETAILS

SHEET #
L5.8

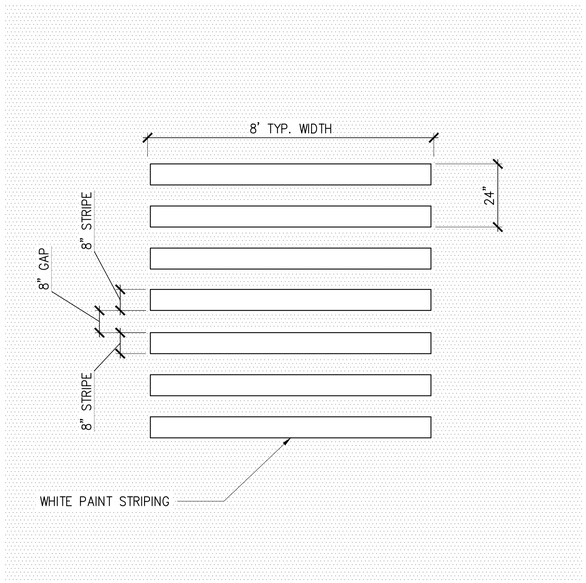
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1 ADA PARKING SIGN
NTS



2 ADA PARKING STALL MARKING
NTS



3 ADA STALL AISLE SIGNAGE STRIPING
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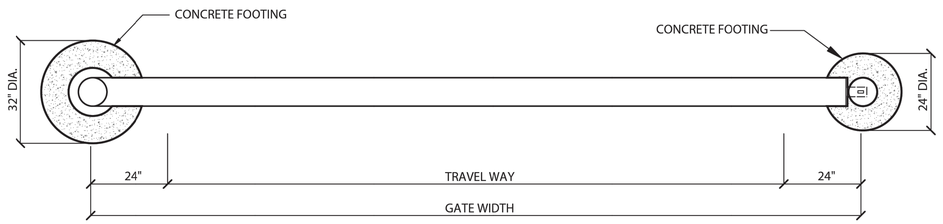
ADA DETAILS

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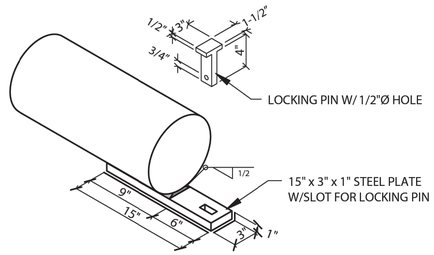
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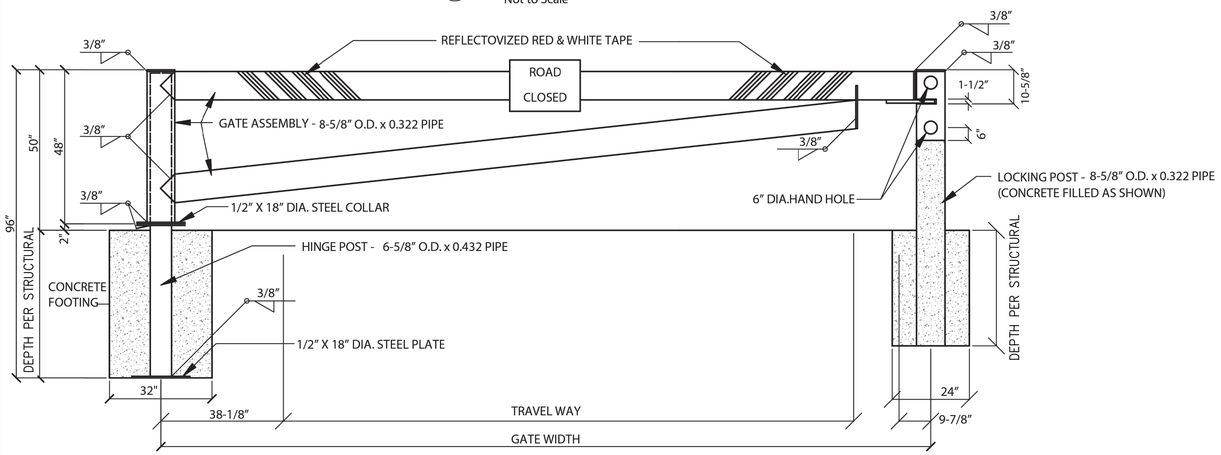
NOTE: LOCKING POSTS, ONE EACH, WILL BE REQUIRED AT THE OPEN AND CLOSED POSITIONS OF THE GATE



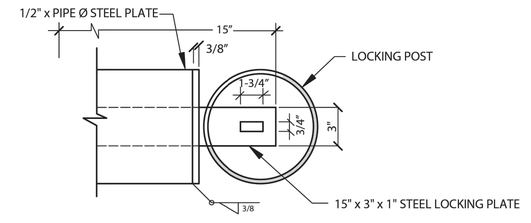
1 PLAN VIEW
Not to Scale



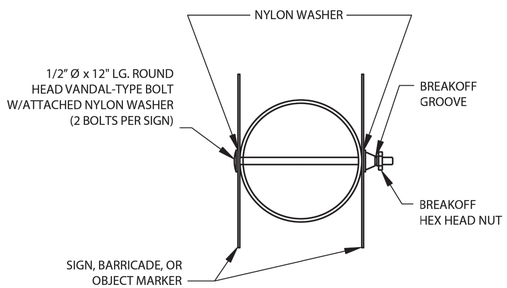
4 ISOMETRIC-LOCKING SYSTEM
Not to Scale

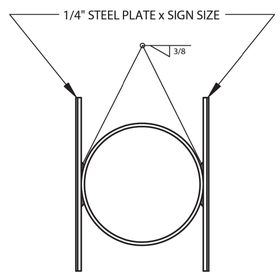


2 ELEVATION
Not to Scale

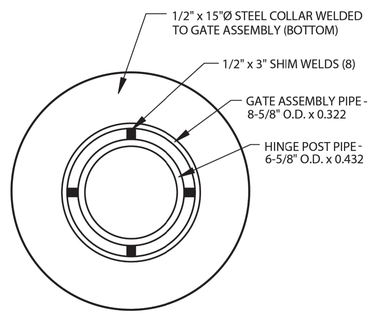


5 SECTION THRU LOCKING POST
Not to Scale

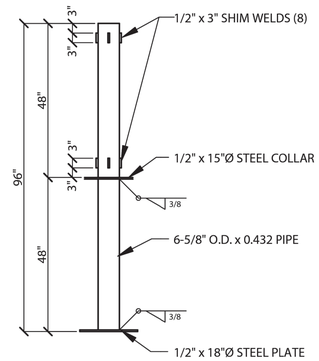




3 DETAILS-GATE ATTACHMENTS
Not to Scale



6 SECTION @ HINGE POST
Not to Scale



7 DETAIL-HINGE POST
Not to Scale

NOTES:

1. PIPE SHALL MEET THE REQUIREMENTS OF ASTM A 53, GRADE B. PIPE SIZE SHALL BE AS SHOWN ON THE DRAWINGS
2. GATE AND LOCKING POSTS SHALL BE PRIMED (1 COAT) AND PAINTED (2 COATS), COLOR WHITE, IN ACCORDANCE WITH SECTION 708-PAINT AFTER FABRICATION.

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SHEET NAME
SWING GATE DETAIL

SHEET #
L5.10

GENERAL NOTES

1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CITY OF SEATAC MUNICIPAL CODE (SMC), THE 2016 KING COUNTY ROAD STANDARDS (KCRS) AS AMENDED BY THE CITY OF SEATAC ADDENDUM TO ROAD STANDARDS, THE LATEST VERSION OF THE KING COUNTY SURFACE WATER DESIGN MANUAL (KCSWDM) AS AMENDED BY THE CITY OF SEATAC ADDENDUM TO THE KCSWDM, AND THE LATEST VERSION OF THE WASHINGTON STATE DEPARTMENT OF TRANSPORTATION (WSDOT) STANDARD SPECIFICATIONS FOR ROADS, BRIDGES, AND MUNICIPAL CONSTRUCTION AND ALL CONDITIONS OF THE PERMITS AND LAND USE ACTIONS. IT SHALL BE THE SOLE RESPONSIBILITY OF THE APPLICANT AND THE PROFESSIONAL CIVIL ENGINEER TO CORRECT ANY ERROR, OMISSION, OR VARIATION FROM THE ABOVE REQUIREMENTS FOUND IN THESE PLANS. ALL CORRECTIONS SHALL BE AT NO ADDITIONAL COST OR LIABILITY TO CITY OF SEATAC. THE DESIGN ELEMENTS WITHIN THE PLANS HAVE BEEN REVIEWED ACCORDING TO THE SEATAC ENGINEERING REVIEW DIVISION CHECKLIST. SOME ELEMENTS MAY HAVE BEEN OVERLOOKED OR MISSED BY THE ENGINEERING REVIEW DIVISION PLANS REVIEWER. ANY VARIANCE FROM ADOPTED STANDARDS IS NOT ALLOWED UNLESS SPECIFICALLY APPROVED BY THE ENGINEERING REVIEW MANAGE IN WRITING PRIOR TO CONSTRUCTION.

2. THE DESIGN ELEMENTS WITHIN THESE PLANS HAVE BEEN REVIEWED ACCORDING TO THE CITY OF SEATAC ENGINEERING REVIEW DIVISION CHECKLIST. SOME ELEMENTS MAY HAVE BEEN OVERLOOKED OR MISSED BY THE ENGINEERING REVIEW DIVISION PLAN REVIEWER. ANY VARIANCE FROM THE CITY OF SEATAC'S ADOPTED STANDARDS IS NOT ALLOWED UNLESS SPECIFICALLY APPROVED BY THE ENGINEERING REVIEW DIVISION MANAGER PRIOR TO CONSTRUCTION.

3. APPROVAL OF THE WORK DESCRIBED AS PART OF THIS PERMIT AND SHOWN IN THE PLANS DOES NOT CONSTITUTE AN APPROVAL OF ANY OTHER CONSTRUCTION (DOMESTIC WATER CONVEYANCE, SEWER CONVEYANCE, GAS, ELECTRICAL, ETC.). ALL WORK SHOWN ON THESE PLANS NEED TO BE PERMITTED BY THE CITY OF SEATAC ENGINEERING REVIEW DIVISION PRIOR TO THE START OF CONSTRUCTION. MORE THAN ONE PERMIT MAY BE NECESSARY FOR THE WORK SHOWN.

4. A PRECONSTRUCTION MEETING MUST BE HELD BETWEEN THE CITY OF SEATAC ENGINEERING REVIEW DIVISION, THE APPLICANT, THE APPLICANT'S CONSTRUCTION REPRESENTATIVE, AND REPRESENTATIVES FROM THE VARIOUS UTILITIES BEING CONSTRUCTED OR AFFECTED BY THESE PLANS ON-SITE OR AT CITY HALL NO LATER THAN 72 HOURS PRIOR TO START OF ON-SITE CONSTRUCTION. CALL THE CITY OF SEATAC ENGINEERING REVIEW DIVISION ADMINISTRATIVE NUMBER AT 206.973.4764 TO ARRANGE A TIME FOR OUR REPRESENTATIVE TO MEET WITH THE CONTRACTOR, SUB-CONTRACTORS, AND UTILITY REPRESENTATIVES. ALL CONTRACTORS AND SUB-CONTRACTORS WILL NEED TO SHOW PROOF OF STATE L & I CONTRACTORS' REGISTRATION AND CITY BUSINESS LICENSE AT THE PRE-CONSTRUCTION MEETING.

5. A COPY OF THE LATEST APPROVED PLANS, PERMITS, AND ALL ASSOCIATED DOCUMENTS MUST BE ON THE JOB SITE AT ALL TIMES DURING CONSTRUCTION.

6. IT SHALL BE THE APPLICANT'S/CONTRACTOR'S RESPONSIBILITY TO OBTAIN ALL APPLICABLE CONSTRUCTION EASEMENTS NECESSARY BEFORE INITIATING WORK ON PRIVATE PROPERTY.

7. GROUNDWATER ENCOUNTERED DURING EXCAVATION SHALL BE DISPOSED OF PER SECTION 7-08 OF THE WSDOT STANDARD SPECIFICATIONS.

8. ALL ROADWAY SUBGRADE SHALL BE BACKFILLED AND COMPACTED TO 95 PERCENT DENSITY (WSDOT 2-06.3).

9. OPEN CUTTING OF EXISTING ROADWAYS IS NOT ALLOWED UNLESS SPECIFICALLY APPROVED BY CITY OF SEATAC PUBLIC WORKS DIRECTOR OR DESIGNEE AND NOTED ON THESE APPROVED PLANS.

10. WHEN THERE IS NO ACTIVE CONSTRUCTION ACTIVITY, TRENCHING IN THE ROADWAY MUST BE COVERED WITH STEEL PLATES AND THE LANES REOPENED. EACH SIDE OF THE PLATE SHALL HAVE A MINIMUM OF 12 INCHES BEARING ON THE SIDES OF A CUT, AND SHALL BE ANCHORED BY STEEL PINS SHIMMED TO PREVENT MOVEMENT, AND SHALL BE ORIENTED TO BE PERPENDICULAR TO TRAFFIC. PLATES SHALL BE BEDDED ON TEMPORARY PAVEMENT PATCH MATERIAL AND THE BEDDING SHALL BE TAPERED ON ALL SIDES TO PROVIDE SMOOTH TRANSITION FOR ALL USERS. PLATES SHALL BE TEXTURED TO PROVIDE A NON-SKID SURFACE IN DRY AND WET CONDITIONS. ALL PLATES SHALL BE HIGHLIGHTED WITH PAINT, AND AN ADVANCE WARNING SIGN SHALL BE USED TO IDENTIFY THE PRESENCE OF THE PLATE.

11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ADEQUATE SAFEGUARDS, SAFETY DEVICES, PROTECTIVE EQUIPMENT, FLAGGERS, AND ANY OTHER NEEDED ACTIONS TO PROTECT THE LIFE, HEALTH, AND SAFETY OF THE PUBLIC, AND TO PROTECT PROPERTY IN CONNECTION WITH THE PERFORMANCE OF WORK COVERED BY THE CONTRACTOR. ANY WORK WITHIN THE TRAVELED RIGHT-OF-WAY THAT MAY INTERRUPT NORMAL TRAFFIC FLOW SHALL REQUIRE AN APPROVED TRAFFIC CONTROL PLAN. SECTION 1-07.23, "TRAFFIC CONTROL," OF THE WSDOT STANDARD SPECIFICATIONS SHALL APPLY IN ITS ENTIRETY.

12. CONSTRUCTION NOISE SHALL BE LIMITED IN ACCORDANCE WITH SEATAC MUNICIPAL CODE SECTION 8.05.360. NORMAL WORKING HOURS ARE FROM 7:00 A.M. TO 4:00 P.M. MONDAY THROUGH FRIDAY. ON THE FOLLOWING MAJOR ARTERIALS, HOWEVER, HOURS OF OPERATION SHALL BE LIMITED FROM 8:30 A.M. TO 3:00 P.M.: INTERNATIONAL BOULEVARD, MILITARY ROAD SOUTH, DES MOINES MEMORIAL DRIVE SOUTH, 24TH AVENUE SOUTH, 28TH AVENUE SOUTH, S. 154TH STREET, S. 160TH STREET, S. 170TH STREET, S. 176TH STREET, S. 188TH STREET, AND S. 200TH STREET. ADDITIONAL RESTRICTIONS MAY APPLY BASED ON SEPA CONDITIONS OR SPECIFIC SITE CHARACTERISTICS. WORK OUTSIDE THE NORMAL WORKING HOURS, OR ON SATURDAYS (9:00 A.M. TO 10:00 P.M.), SUNDAYS (9:00 TO 6:00 P.M.), AND HOLIDAYS, WILL REQUIRE PRIOR WRITTEN APPROVAL FROM THE ENGINEERING REVIEW DIVISION. REQUESTS FOR SUCH AFTER-HOURS, WEEKEND, OR HOLIDAY MUST BE SUBMITTED TO THE ENGINEERING REVIEW DIVISION 72 HOURS IN ADVANCE OF SUCH WORK AND MUST BE APPROVED IN WRITING. CITY STAFF TIME FOR AFTER-HOURS, SATURDAY, SUNDAY, AND HOLIDAY WORK WILL BE BILLED AT THE RATE OF ONE AND ONE HALF TIMES THE STANDARD HOURLY RATE.

13. NO LANE CLOSURE OR WORK WILL BE ALLOWED ON THE ROADS LISTED IN ITEM #14 DURING THE TIMES LISTED UNLESS APPROVED BY THE CITY OF SEATAC ENGINEERING REVIEW DIVISION:
    - FROM MIDNIGHT 3 DAYS PRIOR TO THANKSGIVING TO MIDNIGHT MONDAY AFTER THANKSGIVING.
    - FROM MIDNIGHT DECEMBER 23RD, OR THE FRIDAY PRIOR, IF IT OCCURS ON A SATURDAY OR SUNDAY, TO MIDNIGHT JANUARY 2ND, OR THE MONDAY AFTER, IF IT FALLS ON A FRIDAY, SATURDAY OR SUNDAY.

14. THE CONTRACTOR SHALL PROVIDE UNIFORMED OFFICERS WITH MARKED POLICE VEHICLES IN ACCORDANCE WITH THE APPROVED TRAFFIC CONTROL PLAN(S). CONTACT THE KING COUNTY POLICE OFFICERS' GUILD TO ARRANGE FOR OFF DUTY OFFICERS. THEY CAN BE REACHED BY PHONE AT 206-957-0934 OR BY EMAIL AT OFFDUTY@KCPOG.COM. OFFICERS FROM OTHER COUNTIES MAY BE SUBSTITUTED IF THE KING COUNTY POLICE OFFICERS' GUILD CANNOT PROVIDE OFFICERS. CLOSURE OF A LANE OF TRAFFIC ON THE FOLLOWING ARTERIALS SHALL REQUIRE THE PRESENCE OF AN OFF-DUTY POLICE OFFICER WITH MARKED PATROL VEHICLE AS PART OF THE TRAFFIC CONTROL PLAN(S): INTERNATIONAL BOULEVARD; MILITARY ROAD SOUTH; DES MOINES MEMORIAL DRIVE SOUTH; 24TH AVENUE SOUTH; 28TH AVENUE SOUTH; S. 154TH STREET; S. 160TH STREET; S. 170TH STREET; S. 176TH STREET; S. 188TH STREET; S. 200TH STREET; OR ANY SIGNALIZED INTERSECTION.

15. THE STANDARD COORDINATE SYSTEM TO BE USED FOR PROJECTS IN SEATAC, UNLESS OTHERWISE APPROVED BY CITY OF SEATAC ENGINEERING REVIEW DIVISION, IS: NAD_1983_HARN_STATEPLANE_WASHINGTON_NORTH_FIPS_4601_FEET, WKID: 2926 AUTHORITY: EPSG, WASHINGTON STATE PLANE COORDINATES (NORTH ZONE), NORTH AMERICAN DATUM OF 1983 (1991) HARN, SPHEROID GRS 1980, VERTICAL DATUM NAVD88, LINEAR UNITS IN U.S. SURVEY FEET*, FIPS 4601 (*1 FOOT EQUALS 0.3048006096 METERS).

16. UPON COMPLETION OF THE PROJECT, A SET OF CAD PRODUCED AS-BUILT DRAWINGS THAT ARE COORDINATELY CORRECT USING CITY'S HORIZONTAL AND VERTICAL CONTROL IS TO BE PREPARED BY A PROFESSIONAL LICENSED SURVEYOR OR ENGINEER. AS BUILT DRAWINGS ARE TO BE REVIEWED AND APPROVED BY THE CITY OF SEATAC. ONCE APPROVED BY THE CITY FOR ACCURACY, AN ELECTRONIC CAD FILE OF THE DRAWING SHALL BE PROVIDED TO THE CITY OF SEATAC FOR A PERMANENT RECORD.

DRAINAGE NOTES

1. ALL PIPE AND APPURTENANCES SHALL BE LAID ON A PROPERLY PREPARED FOUNDATION IN ACCORDANCE WITH WSDOT 7-02.3(1). REDUCTIONS IN COMPACTION REQUIREMENTS ARE ALLOWED TO ACCOMMODATE BIORETENTION OR PERMEABLE PAVEMENT INSTALLATIONS.

2. STEEL PIPE SHALL BE GALVANIZED AND HAVE ASPHALT TREATMENT #1 OR BETTER INSIDE AND OUTSIDE (KCRS 7.03).

3. ALL DRAINAGE STRUCTURES, SUCH AS CATCH BASINS AND MANHOLES, SHALL HAVE LOCKING FRAMES AND GRATES OR SOLID LOCKING LIDS. ALL DRAINAGE STRUCTURES ASSOCIATED WITH A PERMANENT RETENTION/DETENTION FACILITY SHALL HAVE SOLID LOCKING LIDS.

4. ALL CATCH BASIN GRATES SHALL CONFORM TO THE LATEST EDITION OF THE KCRDCS DRAWING NUMBERS 7-013, 7-017, 7-018, 7-019, 7-020, OR 7-021, AND SHALL INCLUDE THE STAMPING "OUTFALL TO STREAM, DUMP NO POLLUTANTS". ALL GRATES AND SOLID COVERS WITHIN THE RIGHT-OF-WAY SHALL HAVE EON LOCK, ERGO ROUND COVERS, OR APPROVED EQUIVALENT.

5. ALL DRIVEWAY CULVERTS LOCATED WITHIN CITY OF SEATAC RIGHT-OF-WAY SHALL BE OF SUFFICIENT LENGTH TO PROVIDE A MINIMUM 3:1 SLOPE FROM THE EDGE OF THE DRIVEWAY TO THE BOTTOM OF THE DITCH. DRIVEWAY CULVERTS SHALL BE 12" DIAMETER CONCRETE OR EQUIVALENT WITH BEVELED END SECTIONS ON ALL EXPOSED ENDS TO MATCH THE SIDE SLOPE, AND ARE TO HAVE QUARRY SPALLS FOR EROSION PROTECTION ON EACH END (SEE KCRS 7.03(G), DRAWING NO. 7-001).

6. THE STANDARD ROCK LINING OF DITCHES SHALL BE IN ACCORDANCE WITH THE MOST RECENT EDITION OF THE KING COUNTY SURFACE WATER DESIGN MANUAL AND SECTION 9-13 OF THE WSDOT STANDARD SPECIFICATIONS. ROCK GRADATION SHALL BE AS FOLLOWS: PASSING 8-INCH SQUARE SIEVE 100%; PASSING 3-INCH SQUARE SIEVE 40%; AND PASSING ¾ INCH SIEVE 10%. INSTALLATION SHALL BE PLACED SO AS TO FORM A FIRM, DENSE PROTECTIVE MAT CONSISTENT WITH EXAMPLES IN KCRDCS DRAWING NUMBER 7-024 AND CONFORMING TO THE DESIGN SURFACE OF THE DITCH. INDIVIDUAL ROCKS SHALL NOT PROTRUDE MORE THAN 3 INCHES FROM THAT SURFACE.

7. ALL STORM PIPE, DETENTION TANKS & VAULTS, WATER QUALITY TANKS & VAULTS, AND COMBINED DETENTION & WATER QUALITY TANKS & VAULTS SHALL BE SUBJECT TO TESTING PER SECTION 7-04 OF THE WSDOT STANDARD SPECIFICATIONS AND CITY OF SEATAC STANDARD PROCEDURES.

8. DETENTION TANKS MUST PASS AN EXFILTRATION TEST PER THE WSDOT 2016 7-04.3(1)B STANDARD PRIOR TO FINALIZING THE STE PERMIT.

DRAINAGE NOTES (CONT.):

9. ALL DISTURBED PERVIOUS AREAS (COMPACTED, GRADED, LANDSCAPED, ETC.) OF THE DEVELOPMENT SITE MUST DEMONSTRATE ONE OF THE FOLLOWING: THE EXISTING DUFF LAYER SHALL BE STAGED AND REDISTRIBUTED TO MAINTAIN THE MOISTURE CAPACITY OF THE SOIL, OR AMENDED SOIL SHALL BE ADDED TO MAINTAIN THE MOISTURE CAPACITY PURSUANT TO CITY OF SEATAC SOIL AMENDMENT STANDARDS.

10. SITE CLEARING IS LIMITED SEASONALLY BETWEEN OCTOBER 1 AND MARCH 30 INCLUSIVE, UNLESS OTHERWISE APPROVED WITH A WRITTEN DECISION BY THE CITY OF SEATAC ENGINEERING REVIEW DIVISION.

11. PRIOR TO THE CONSTRUCTION OF ANY IMPROVEMENTS AND/OR BUILDINGS ON THE SITE, THOSE PORTIONS OF THE STORMWATER FACILITIES NECESSARY TO ACCOMMODATE THE CONTROL OF SURFACE AND STORMWATER RUNOFF DISCHARGE FROM THE SITE DURING CONSTRUCTION MUST BE CONSTRUCTED, APPROVED, AND FUNCTIONING PROPERLY.

12. DRAINAGE INLETS (STUB-OUTS) SHALL BE PROVIDED FOR EACH INDIVIDUAL LOT, EXCEPT FOR THOSE LOTS APPROVED FOR INFILTRATION BY THE CITY OF SEATAC. STUB-OUTS SHALL CONFORM TO THE FOLLOWING:
    - A) EACH OUTLET SHALL BE SUITABLY LOCATED AT THE LOWEST ELEVATION ON THE LOT, SO AS TO SERVICE ALL FUTURE ROOF DOWNSPOUTS AND FOOTING DRAINS, DRIVEWAYS, YARD DRAINS, AND ANY OTHER SURFACE OR SUBSURFACE DRAINS NECESSARY TO RENDER THE LOTS SUITABLE FOR THEIR INTENDED USE. EACH OUTLET SHALL HAVE FREE-FLOWING, POSITIVE DRAINAGE TO AN APPROVED STORMWATER CONVEYANCE SYSTEM OR TO AN APPROVED OUTFALL LOCATION.
    - B) OUTLETS ON EACH LOT SHALL BE LOCATED WITH A FIVE-FOOT-HIGH, 2" X 4" STAKE MARKED "STORM" OR "DRAIN". THE STAKE SHALL EXTEND ABOVE SURFACE LEVEL, BE VISIBLE, AND BE SECURED TO THE STUB-OUT.
    - C) PIPE MATERIAL SHALL CONFORM TO UNDERDRAIN SPECIFICATIONS DESCRIBED IN KCRS 7.03. IF NON-METALLIC, THE PIPE SHALL CONTAIN WIRE OR OTHER ACCEPTABLE DETECTION.
    - D) DRAINAGE EASEMENTS ARE REQUIRED FOR DRAINAGE SYSTEMS DESIGNED TO CONVEY FLOWS THROUGH INDIVIDUAL LOTS.
    - E) THE APPLICANT/CONTRACTOR IS RESPONSIBLE FOR COORDINATING THE LOCATIONS OF ALL STUB-OUT CONVEYANCE LINES WITH RESPECT TO UTILITIES (E.G., POWER, GAS, TELEPHONE, TELEVISION, ETC.).
    - F) ALL INDIVIDUAL STUB-OUTS SHALL BE PRIVATELY OWNED AND MAINTAINED BY THE LOT HOMEOWNER.

13. PIPE COVER NOTES:
    - A) FOR COVER LESS THAN 1 FT. DUCTILE IRON PIPE IS USED.
    - B) FOR COVER FROM 1 FT. TO 2 FT. USE REINFORCED CONCRETE PIPE.
    - C) FOR A MIN. 2 FT. COVER - ANY MATERIAL LISTED IN THE 2016 KING COUNTY SURFACE WATER DESIGN MANUAL OTHER THAN PVC MAY BE USED.
    - D) PVC PIPE REQUIRES AT LEAST 3 FT. COVER.
    - E) ALL PVC PIPES REQUIRE A SAND COLLAR WHEN CONNECTING TO A CONCRETE STRUCTURE.

    NOTES: ALL DIMENSIONS ARE MEASURED FROM TOP (OUTSIDE) OF PIPE. A) COVER IS THE MATERIAL OVER THE OUTSIDE TOP OF THE PIPE (COVER MAY NOT INCLUDE THE MATERIAL OF THE PIPE). IF YOU HAVE A THREE-FOOT GRADE DIFFERENTIAL BETWEEN THE INVERT OF A 12" DIAMETER PIPE AND THE FINISHED GRADE, YOU DO NOT HAVE TWO FOOT OF COVER OVER THE PIPE. EXCEPTIONS MAY BE GRANTED IN NONVEHICULAR AREAS.

14. THE CONTRACTOR SHALL PROVIDE CCTV FOOTAGE OF ALL PIPES INSTALLED IN RIGHT-OF-WAY TO THE CITY.

EROSION AND SEDIMENT CONTROL NOTES

1. THE APPROVED STORMWATER EROSION AND SEDIMENT CONTROL/POLLUTION PREVENTION PLAN(ESC/SWPPP), IF REQUIRED, MUST BE KEPT ON THE CONSTRUCTION SITE AT ALL TIMES.

2. APPROVAL OF THE EROSION AND SEDIMENT CONTROL (ESC) MEASURES SHOWN IN THE APPROVED PLANS DOES NOT CONSTITUTE AN APPROVAL OF PERMANENT ROAD OR DRAINAGE DESIGN (E.G., SIZE AND LOCATION OF ROADS, PIPES, RESTRICTORS, CHANNELS, RETENTION FACILITIES, LID BMPS, UTILITIES, ETC.) UNLESS THAT IS ALSO COVERED BY THIS PERMIT.

3. THE IMPLEMENTATION OF THESE ESC PLANS AND THE CONSTRUCTION, MAINTENANCE, REPLACEMENT, AND UPGRADING OF THESE ESC BMPS IS THE RESPONSIBILITY OF THE APPLICANT/ESC SUPERVISOR UNTIL ALL CONSTRUCTION IS APPROVED.

4. THE BOUNDARIES OF THE CLEARING LIMITS SHOWN ON THIS PLAN SHALL BE CLEARLY FLAGGED BY SURVEY TAPE OR FENCING, PRIOR TO CONSTRUCTION (SWDM APPENDIX D AS AMENDED BY THE CITY OF SEATAC ADDENDUM TO THE KCSWDM), UNLESS SPECIFICALLY ALLOWED BY THE CITY INSPECTOR. DURING THE CONSTRUCTION PERIOD, NO DISTURBANCE BEYOND THE CLEARING LIMITS SHALL BE PERMITTED. THE CLEARING LIMITS SHALL BE MAINTAINED BY THE APPLICANT/ESC SUPERVISOR FOR THE DURATION OF CONSTRUCTION.

5. STABILIZED CONSTRUCTION ENTRANCES SHALL BE INSTALLED AT THE BEGINNING OF CONSTRUCTION AND MAINTAINED FOR THE DURATION OF THE PROJECT. ADDITIONAL BMPS, SUCH AS CONSTRUCTED WHEEL WASH SYSTEMS OR WASH PADS, MAY BE REQUIRED TO ENSURE THAT ALL PAVED AREAS ARE KEPT CLEAN AND TRACKING OUT TO ROAD RIGHT-OF-WAY DOES NOT OCCUR FOR THE DURATION OF THE PROJECT. PEDESTRIAN ACCESS ROUTE TO BE MAINTAINED AT ALL TIMES.

6. PROTECT ALL BIO RETENTION FACILITIES, RAIN GARDENS, AND PERMEABLE PAVEMENT FROM SEDIMENTATION THROUGH INSTALLATION AND MAINTENANCE OF EROSION AND SEDIMENT CONTROL BMPS. RESTORE PERMANENT BMPS TO THEIR FULLY FUNCTIONING CONDITION IF THEY ACCUMULATE SEDIMENT DURING CONSTRUCTION.

7. PREVENT COMPACTION OF BIO RETENTION FACILITIES AND RAIN GARDENS BY EXCLUDING CONSTRUCTION EQUIPMENT AND FOOT TRAFFIC.

8. THE ESC FACILITIES SHOWN ON THIS PLAN MUST BE CONSTRUCTED PRIOR TO OR IN CONJUNCTION WITH ALL CLEARING AND GRADING SO AS TO ENSURE THAT THE TRANSPORT OF SEDIMENT TO SURFACE WATERS, DRAINAGE SYSTEMS, AND ADJACENT PROPERTIES IS MINIMIZED.

9. THE ESC FACILITIES SHOWN ON THIS PLAN ARE THE MINIMUM REQUIREMENTS FOR ANTICIPATED SITE CONDITIONS. DURING THE CONSTRUCTION PERIOD, THESE ESC FACILITIES SHALL BE UPGRADED AS NEEDED FOR UNEXPECTED STORM EVENTS AND MODIFIED TO ACCOUNT FOR CHANGING SITE CONDITIONS (E.G., ADDITIONAL COVER MEASURES, ADDITIONAL SUMP PUMPS, RELOCATION OF DITCHES AND SILT FENCES, PERIMETER PROTECTION, ETC.).

10. THE ESC BMPS SHALL BE INSPECTED DAILY BY THE APPLICANT/ESC SUPERVISOR AND MAINTAINED TO ENSURE CONTINUED PROPER FUNCTIONING. WRITTEN RECORDS SHALL BE KEPT BY THE CESCL OF WEEKLY REVIEWS OF THE ESC BMPS, TO BE COPIED ON REQUEST FOR THE CITY INSPECTOR.

11. ANY AREAS OF EXPOSED SOILS, INCLUDING ROADWAY EMBANKMENTS, THAT WILL NOT BE DISTURBED FOR TWO DAYS DURING THE WET SEASON OR SEVEN DAYS DURING THE DRY SEASON SHALL BE IMMEDIATELY STABILIZED WITH THE APPROVED ESC COVER METHODS (E.G., SEEDING, MULCHING, PLASTIC COVERING, ETC.).

12. ANY AREA NEEDING ESC MEASURES NOT REQUIRING IMMEDIATE ATTENTION SHALL BE ADDRESSED WITHIN SEVEN (7) DAYS. DRY SEASON ONLY.

13. THE ESC BMPS ON INACTIVE SITES SHALL BE INSPECTED AND MAINTAINED A MINIMUM OF ONCE A MONTH OR WITHIN TWENTY-FOUR (24) HOURS FOLLOWING A STORM EVENT.

14. AT NO TIME SHALL MORE THAN ONE (1) FOOT OF SEDIMENT BE ALLOWED TO ACCUMULATE WITHIN A CATCH BASIN. ALL CATCH BASINS AND CONVEYANCE LINES SHALL BE CLEANED PRIOR TO PAVING. THE CLEANING OPERATION SHALL NOT FLUSH SEDIMENT-LADEN WATER INTO THE DOWNSTREAM SYSTEM.

15. ANY PERMANENT FLOW CONTROL FACILITY USED AS A TEMPORARY SETTLING BASIN SHALL BE MODIFIED WITH THE NECESSARY EROSION CONTROL MEASURES AND SHALL PROVIDE ADEQUATE STORAGE CAPACITY. IF THE FACILITY IS TO FUNCTION ULTIMATELY AS AN INFILTRATION SYSTEM, THE TEMPORARY FACILITY MUST BE GRADED SO THAT THE BOTTOM AND SIDES ARE AT LEAST THREE FEET BELOW THE FINAL GRADE OF THE PERMANENT FACILITY.

16. COVER BMPS WILL BE APPLIED IN CONFORMANCE WITH APPENDIX D OF THE SURFACE WATER DESIGN MANUAL.

17. WHERE STRAW MULCH FOR TEMPORARY EROSION CONTROL IS REQUIRED, IT SHALL BE APPLIED AT A MINIMUM THICKNESS OF 2 TO 3 INCHES.

18. FOR PROJECTS THAT DISTURB GREATER THAN 1 ACRE, OR ARE A PART OF A LARGER COMMON PLAN OF DEVELOPMENT THAT DISTURBS GREATER THAN 1 ACRE, THE FOLLOWING APPLIES:
    - A) THE DISCHARGE MONITORING LOG/REPORTS MUST BE KEPT ONSITE AT ALL TIMES.
    - B) DISCHARGES FROM THE CONSTRUCTION SITE GREATER THAN 25 NTU (NEPHELOMETRIC TURBIDITY UNITS) MUST BE TREATED PRIOR TO DISCHARGE AND SAID TREATMENT METHOD MUST BE APPROVED AND FIELD VERIFIED BY CITY INSPECTION STAFF. [NOTE: TREATMENT APPROVAL AND VERIFICATION DOES NOT RELEASE PROPERTY OWNER/DEVELOPER FROM THE RESPONSIBILITY OR LIABILITY OF ENSURING STATE WATER QUALITY STANDARDS (WAC-173-201A) ARE MET FOR DIRECT OR INDIRECT DISCHARGES TO THE RECEIVING WATER(S)].

19. PRIOR TO THE BEGINNING OF THE WET SEASON (OCT. 1), ALL DISTURBED AREAS SHALL BE REVIEWED TO IDENTIFY WHICH ONES CAN BE SEEDED IN PREPARATION FOR THE WINTER RAINS. DISTURBED AREAS SHALL BE SEEDED WITHIN ONE WEEK OF THE BEGINNING OF THE WET SEASON. A SKETCH MAP OF THOSE AREAS TO BE SEEDED AND THOSE AREAS TO BE COVERED BY OTHER METHODS SHALL BE SUBMITTED TO THE ENGINEERING REVIEW DIVISION. THE CITY ENGINEERING INSPECTOR CAN REQUIRE SEEDING OF ADDITIONAL AREAS IN ORDER TO PROTECT SURFACE WATERS, ADJACENT PROPERTIES, OR DRAINAGE FACILITIES.

20. THE CONSTRUCTION PROJECT APPROVED BY THIS PERMIT IS SUBJECT TO CITY BUILDING INSPECTION UNDER SEATAC MUNICIPAL CODES TITLE 12 (PUBLIC UTILITIES CODE) AND TITLE 13 (BUILDINGS AND CONSTRUCTION CODE) WITHOUT PRIOR NOTICE.

RECOMMENDED CONSTRUCTION SEQUENCE

1. HOLD THE EROSION SEDIMENTATION CONTROL PRE-CONSTRUCTION MEETING ON SITE.
2. CONDUCT AN INITIAL EROSION SEDIMENTATION CONTROL (IESC) SITE INSPECTION.
3. HOLD THE PRE-CONSTRUCTION MEETING AT THE CITY, VIRTUALLY, OR ON SITE.
4. POST A SIGN WITH NAME AND PHONE NUMBER OF THE SITE'S ESC SUPERVISOR.
5. FLAG AND/OR FENCE THE CLEARING LIMITS AS REQUIRED BY THE APPROVED PLANS, PERMIT CONDITIONS; OR SEPA CONDITIONS.
6. INSPECTION AND SIGN-OFF OF THE CLEARING LIMITS BY A PUBLIC WORKS INSPECTOR.
7. INSTALL CATCH BASIN PROTECTION AS REQUIRED.
8. GRADE AND INSTALL CONSTRUCTION ENTRANCE(S).
9. INSTALL PERIMETER PROTECTION (SILT FENCE, BRUSH BARRIER, ETC.).
10. CLEARLY MARK LOCATIONS OF PROPOSED BIO RETENTION FACILITIES, RAIN GARDENS, AND PERMEABLE PAVEMENT AND INSTALL ESC BMPS TO PROTECT THEM FROM COMPACTION AND SEDIMENTATION.
11. CONSTRUCT SEDIMENT PONDS AND TRAPS.
12. INSPECTION OF ESC MEASURES BY A PUBLIC WORKS INSPECTOR PRIOR TO COMMENCEMENT OF GRADING ACTIVITY.
13. GRADE AND STABILIZE CONSTRUCTION ROADS.
14. DEMOLITION OF EXISTING STRUCTURES AND SITE FEATURES.
15. CONSTRUCT SURFACE WATER CONTROLS (INTERCEPTOR DIKES, PIPE SLOPE DRAINS, ETC.) SIMULTANEOUSLY WITH CLEARING AND GRADING FOR PROJECT DEVELOPMENT.
16. MAINTAIN EROSION CONTROL MEASURES IN ACCORDANCE WITH CITY OF SEATAC STANDARDS AND MANUFACTURER'S RECOMMENDATIONS.
17. RELOCATE SURFACE WATER CONTROLS AND EROSION CONTROL MEASURES OR INSTALL NEW MEASURES SO THAT AS SITE CONDITIONS CHANGE THE EROSION AND SEDIMENT CONTROL IS ALWAYS IN ACCORDANCE WITH THE CITY OF SEATAC EROSION AND SEDIMENT CONTROL STANDARDS.
18. COVER ALL AREAS THAT WILL BE UNWORKED FOR MORE THAN SEVEN DAYS DURING THE DRY SEASON OR TWO DAYS DURING THE WET SEASON WITH STRAW, WOOD FIBER MULCH, COMPOST, PLASTIC SHEETING OR EQUIVALENT.
19. STABILIZE ALL AREAS THAT REACH FINAL GRADE WITHIN SEVEN DAYS.
20. UPON COMPLETION OF THE PROJECT, ALL DISTURBED AREAS MUST BE STABILIZED AND BEST MANAGEMENT PRACTICES REMOVED AS APPROPRIATE.
21. PRIOR TO FINAL INSPECTION APPROVAL, CONDUCT AN INFILTRATION TEST FOR ANY BIO RETENTION OR PERMEABLE PAVEMENT INSTALLATION TO CONFIRM THAT THE PERMANENT BMPS WERE NOT IMPACTED BY CONSTRUCTION ACTIVITIES. IF NEEDED, RESTORE OR REPLACE BIO RETENTION OR PERMEABLE PAVEMENT BMPS, SO THAT THEY ARE FULLY FUNCTIONING UPON COMPLETION OF CONSTRUCTION ACTIVITIES.

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REV #	DATE OF REV

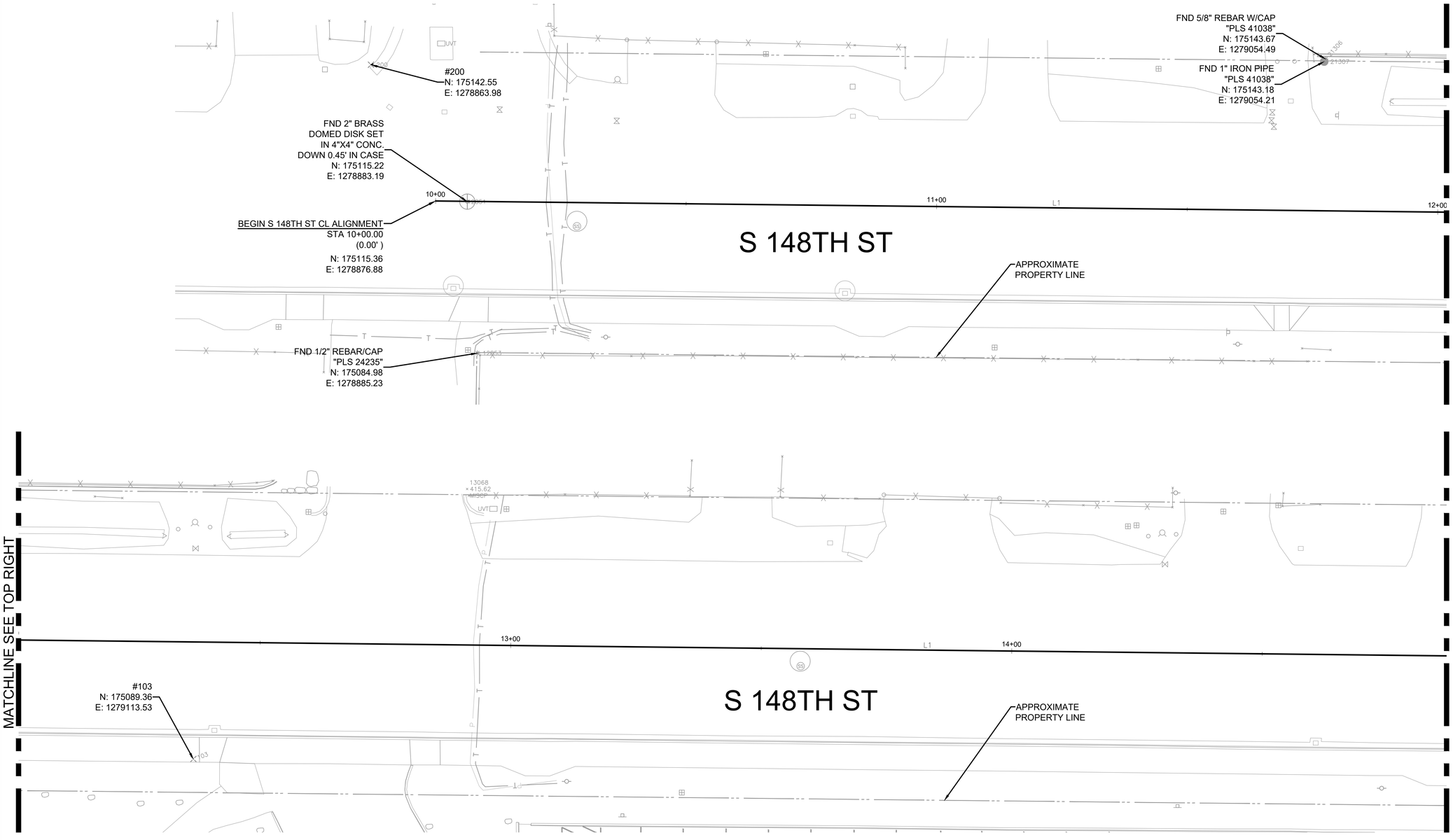
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CHECKED BY	DD
DATE	OCTOBER 28, 2026

SHEET NAME

GENERAL NOTES

SHEET #

CN-0.1



S 148TH ST CL ALIGNMENT				
LINE #	LENGTH	BEARING	START POINT	END POINT
L1	750.00'	S89° 21' 51.57"E	N 175115.3605, E 1278876.8779	N 175107.0397, E 1279626.8317

ONE ATLAS CONTROL POINTS				
POINT #	NORTHING	EASTING	ELEVATION (NAVD88)	CODE
100	174416.39	1279822.52	396.02	MRC
101	175121.93	1279829.84	392.12	MRC
102	175085.79	1279440.97	409.06	MAG
103	175089.36	1279113.53	416.98	MAG
104	174766.50	1279256.24	412.24	MRC
105	174459.45	1279012.27	409.42	MRC
106	174427.28	1279412.27	405.14	MAG
107	174414.34	1280014.70	379.40	MAG
200	175142.55	1278863.98	417.19	MAG

N

0 10' 20' 30'

SCALE IN FEET

BID SET

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STATE OF WASHINGTON
49442
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CLIENT

CITY OF SEATAC
4800 S. 188TH ST.
SEATAC, WA 98188

CONTACT:
CLYNN WILKINSON
CWILKINSON@SEATAC.GOV
(206) 973-4755

REV #	DATE OF REV

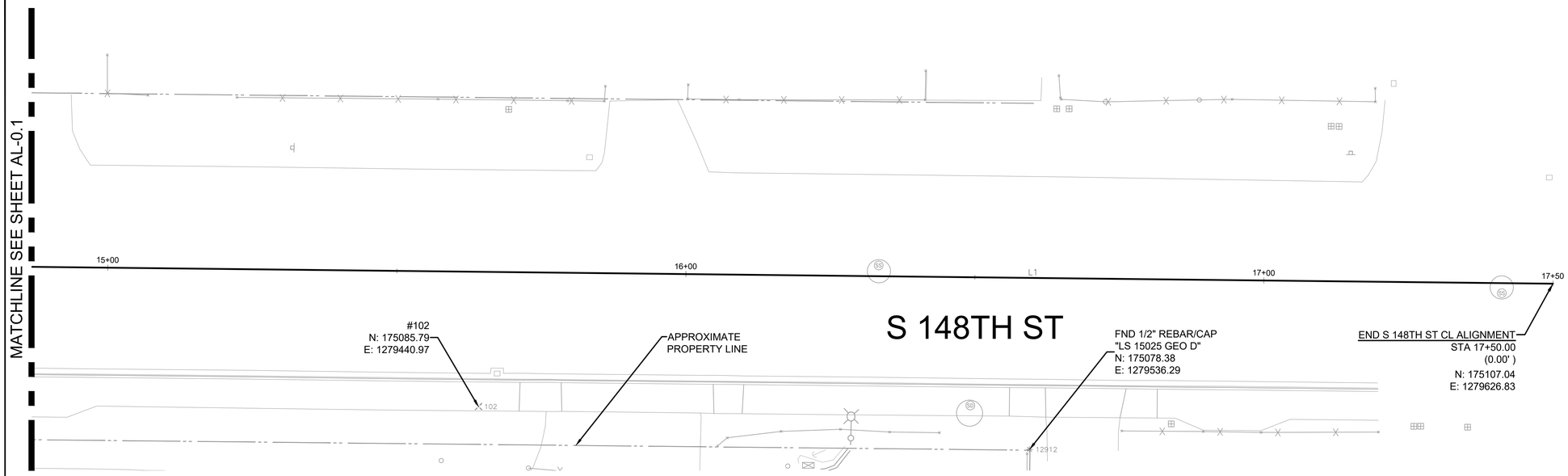
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ALIGNMENT PLANS

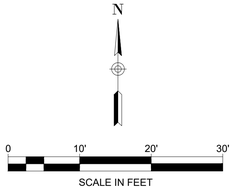
SHEET #

AL-0.1



S 148TH ST CL ALIGNMENT				
LINE #	LENGTH	BEARING	START POINT	END POINT
L1	750.00'	S89° 21' 51.57"E	N 175115.3605, E 1278876.8779	N 175107.0397, E 1279626.8317

ONE ATLAS CONTROL POINTS				
POINT #	NORTHING	EASTING	ELEVATION (NAVD88)	CODE
100	174416.39	1279822.52	396.02	MRC
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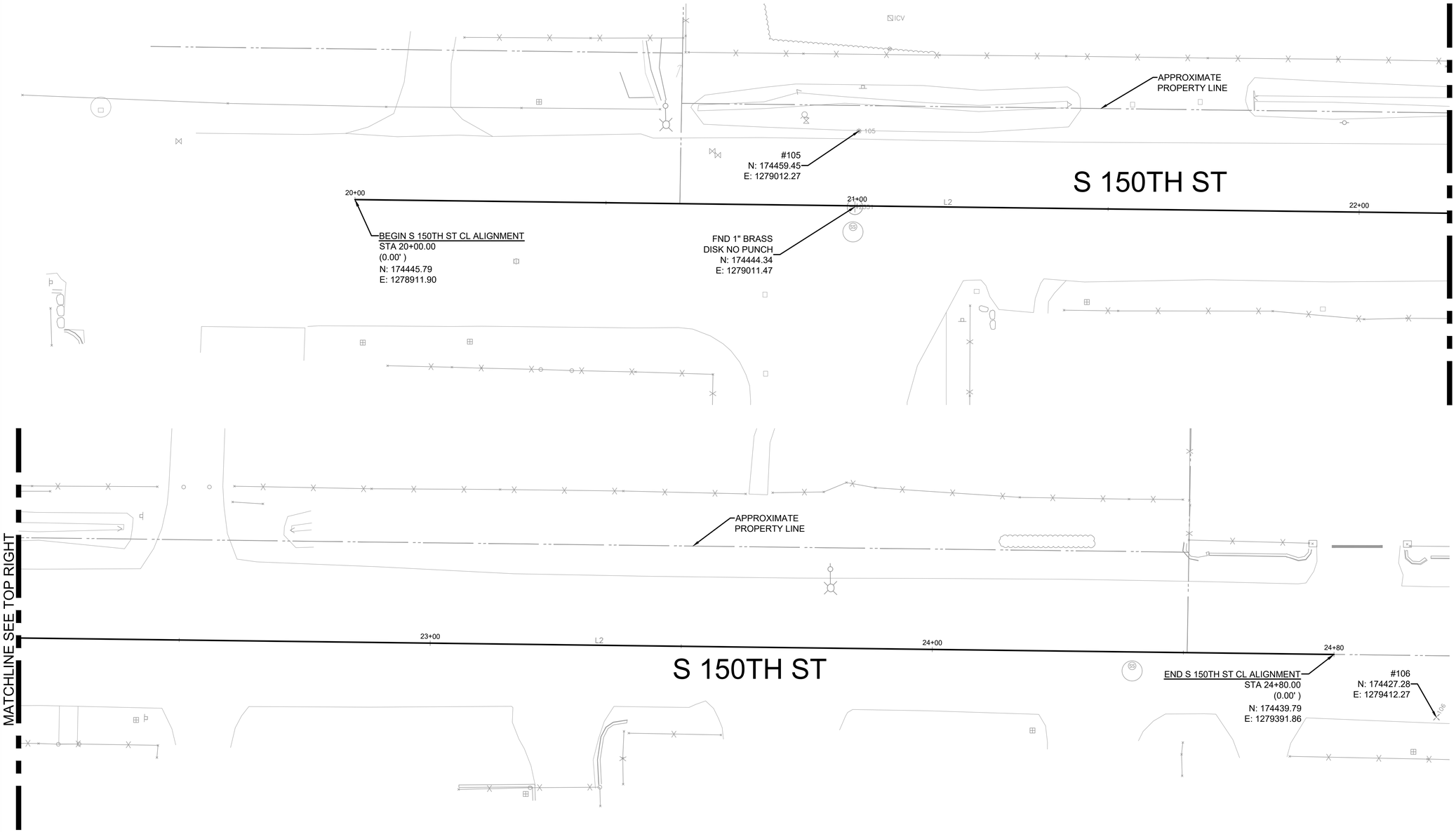
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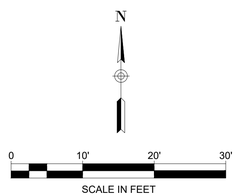
SHEET NAME
ALIGNMENT PLANS

SHEET #
AL-0.2



S 150TH ST CL ALIGNMENT				
LINE #	LENGTH	BEARING	START POINT	END POINT
L2	480.00'	S89° 17' 04.00"E	N 174445.7869, E 1278911.9015	N 174439.7925, E 1279391.8641

ONE ATLAS CONTROL POINTS				
POINT #	NORTHING	EASTING	ELEVATION (NAVD88)	CODE
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101	175121.93	1279829.84	392.12	MRC
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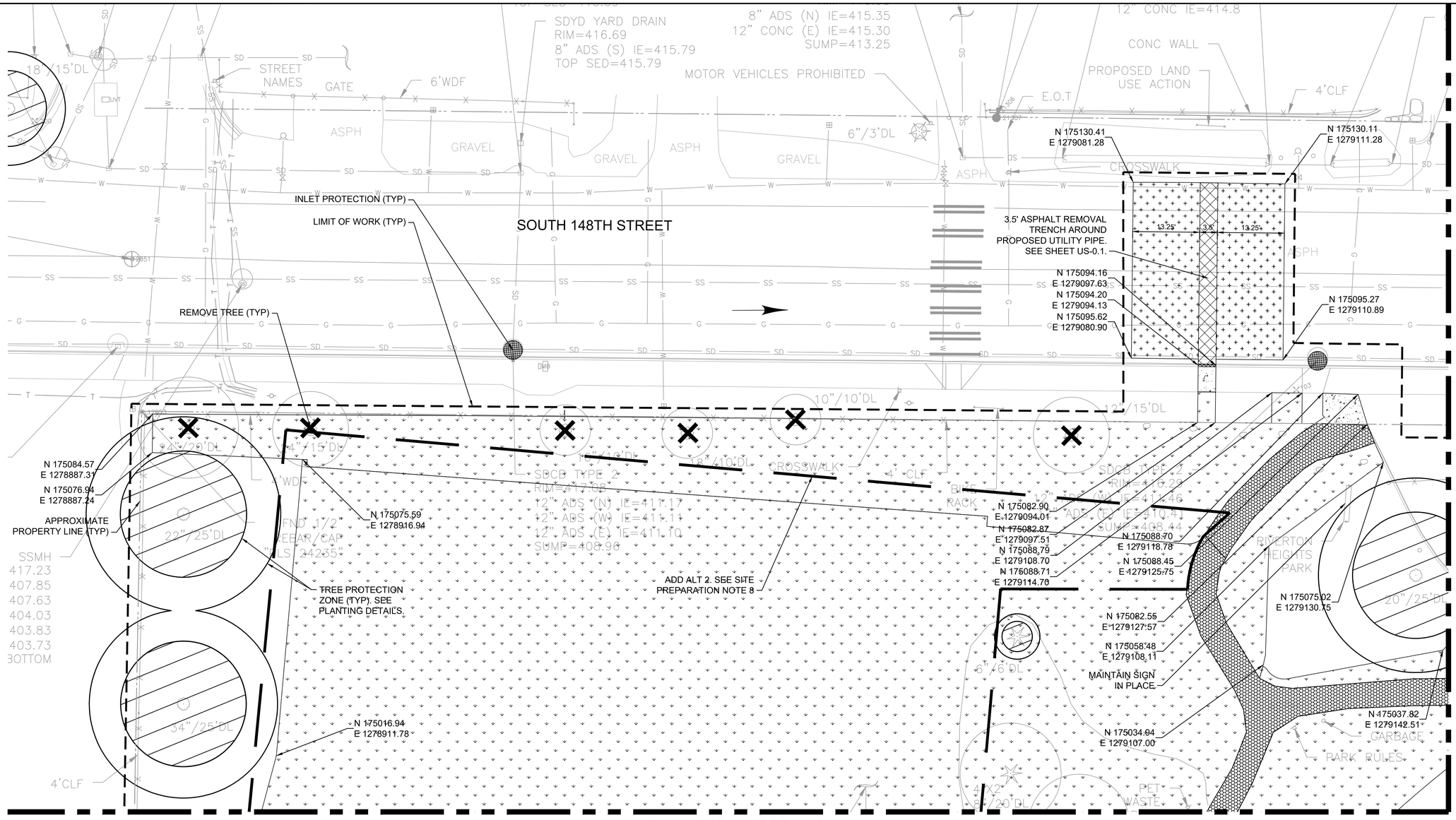
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SHEET NAME
ALIGNMENT PLANS

SHEET #
AL-0.3



MATCHLINE SEE SHEET CD-0.9

EROSION AND SEDIMENT CONTROL NOTES

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3. CONTRACTOR MUST MAINTAIN PAVED AREAS CLEAN OF TRACKED SEDIMENTS FROM CONSTRUCTION ACTIVITIES WITHIN THE LIMITS OF WORK AND WITHIN ADJACENT AREAS POTENTIALLY IMPACTED BY CONSTRUCTION ACTIVITIES.
4. SEE SHEET CN-0.1 FOR ADDITIONAL EROSION AND SEDIMENT CONTROL NOTES.

EROSION AND SEDIMENT CONTROL LEGEND

- STABILIZED CONSTRUCTION ENTRANCE (BMP D.2.1.4.1, KCSWDM)
- COMPOST SOCK (BMP D.2.1.3.6)
- STORM DRAIN INLET PROTECTION (BMP D.2.1.5.3, KCSWDM)
- FLOW ARROW
- SILT FENCE (BMP D.2.1.3.1, KCSWDM) — SF —

SITE PREPARATION NOTES

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3. ALL UTILITIES TO BE PROTECTED UNLESS OTHERWISE NOTED.
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5. CONTRACTOR IS RESPONSIBLE FOR PROTECTING ALL TREES NOT FOR REMOVAL OR SALVAGE.
6. FOR SIGN RELOCATIONS AND INSTALLATIONS, SEE SHEETS TP-0.1-TP-0.2
7. ADD ALT 1 SHALL CONSIST OF ALL WORK AND MATERIALS TO REPLACE THE EXISTING ENGINEERED WOOD FIBER AROUND EXISTING PLAY STRUCTURES WITH A POURED IN PLACE RESILIENT SURFACING.
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9. ADD ALT 3 SHALL CONSIST OF INSTALLING IRRIGATION LINES, MULCH, AND PLANTINGS AS SHOWN ON THE LANDSCAPE PLANS. SEE SHEET L4.2 FOR IRRIGATION LAYOUT. BASE BID SHALL CONSIST OF GRADING AS SHOWN ON SHEET L2.2, AND RESTORATION SEEDING OF ANY DISTURBED AREAS.

SITE PREPARATION LEGEND

- CEMENT CONCRETE SIDEWALK REMOVAL
- PEDESTRIAN HMA FULL DEPTH REMOVAL
- ROADWAY HMA FULL DEPTH REMOVAL
- ROADWAY HMA GRIND AND OVERLAY
- FULL DEPTH GRAVEL REMOVAL
- CLEARING AND GRUBBING
- TREE PROTECTION ZONE (SEE PLANTING DETAILS)
- REMOVE EXISTING STORM STRUCTURE
- REMOVE EXISTING STORM PIPE
- REMOVE EXISTING TREE
- SALVAGE AND TRANSPLANT TREE. SEE PLANTING PLAN
- REMOVE CONCRETE CURB (AND GUTTER)
- LIMIT OF WORK

N

0 10' 20' 30'
SCALE IN FEET

BID SET

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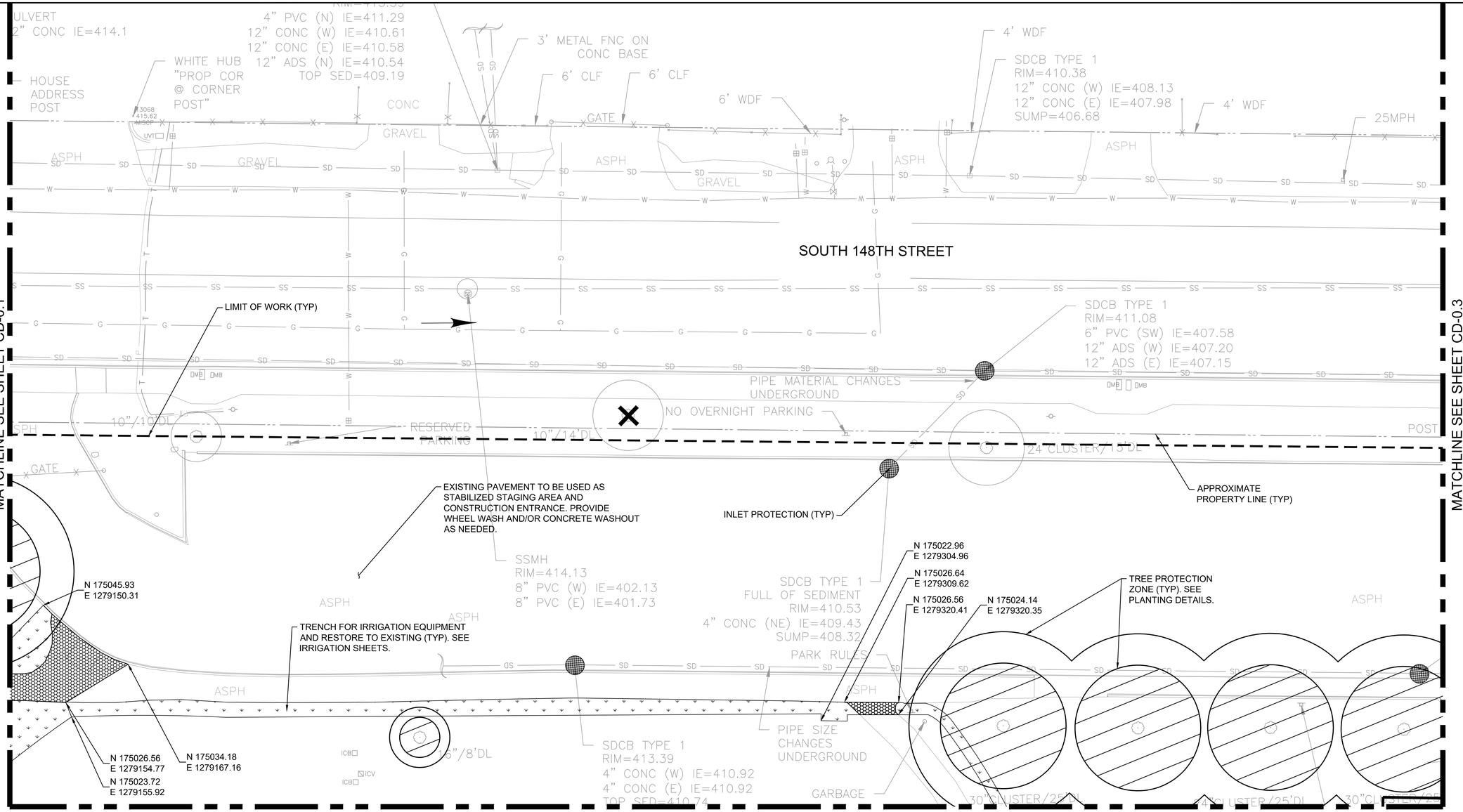
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SHEET NAME
SITE PREPARATION PLANS

SHEET #
CD-0.1



MATCHLINE SEE SHEET CD-0.9

EROSION AND SEDIMENT CONTROL NOTES

1. ALL EROSION CONTROL MATERIAL SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.
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4. SEE SHEET CN-0.1 FOR ADDITIONAL EROSION AND SEDIMENT CONTROL NOTES.

EROSION AND SEDIMENT CONTROL LEGEND

- STABILIZED CONSTRUCTION ENTRANCE (BMP D.2.1.4.1, KCSWDM)
- COMPOST SOCK (BMP D.2.1.3.6)
- STORM DRAIN INLET PROTECTION (BMP D.2.1.5.3, KCSWDM)
- FLOW ARROW
- SILT FENCE (BMP D.2.1.3.1, KCSWDM) — SF —

SITE PREPARATION NOTES

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SITE PREPARATION LEGEND

- CEMENT CONCRETE SIDEWALK REMOVAL
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- ROADWAY HMA FULL DEPTH REMOVAL
- ROADWAY HMA GRIND AND OVERLAY
- FULL DEPTH GRAVEL REMOVAL
- CLEARING AND GRUBBING
- TREE PROTECTION ZONE (SEE PLANTING DETAILS)
- REMOVE EXISTING STORM STRUCTURE
- REMOVE EXISTING STORM PIPE
- REMOVE EXISTING TREE
- SALVAGE AND TRANSPLANT TREE. SEE PLANTING PLAN
- REMOVE CONCRETE CURB (AND GUTTER)
- LIMIT OF WORK

N

0 10' 20' 30'

SCALE IN FEET

BID SET

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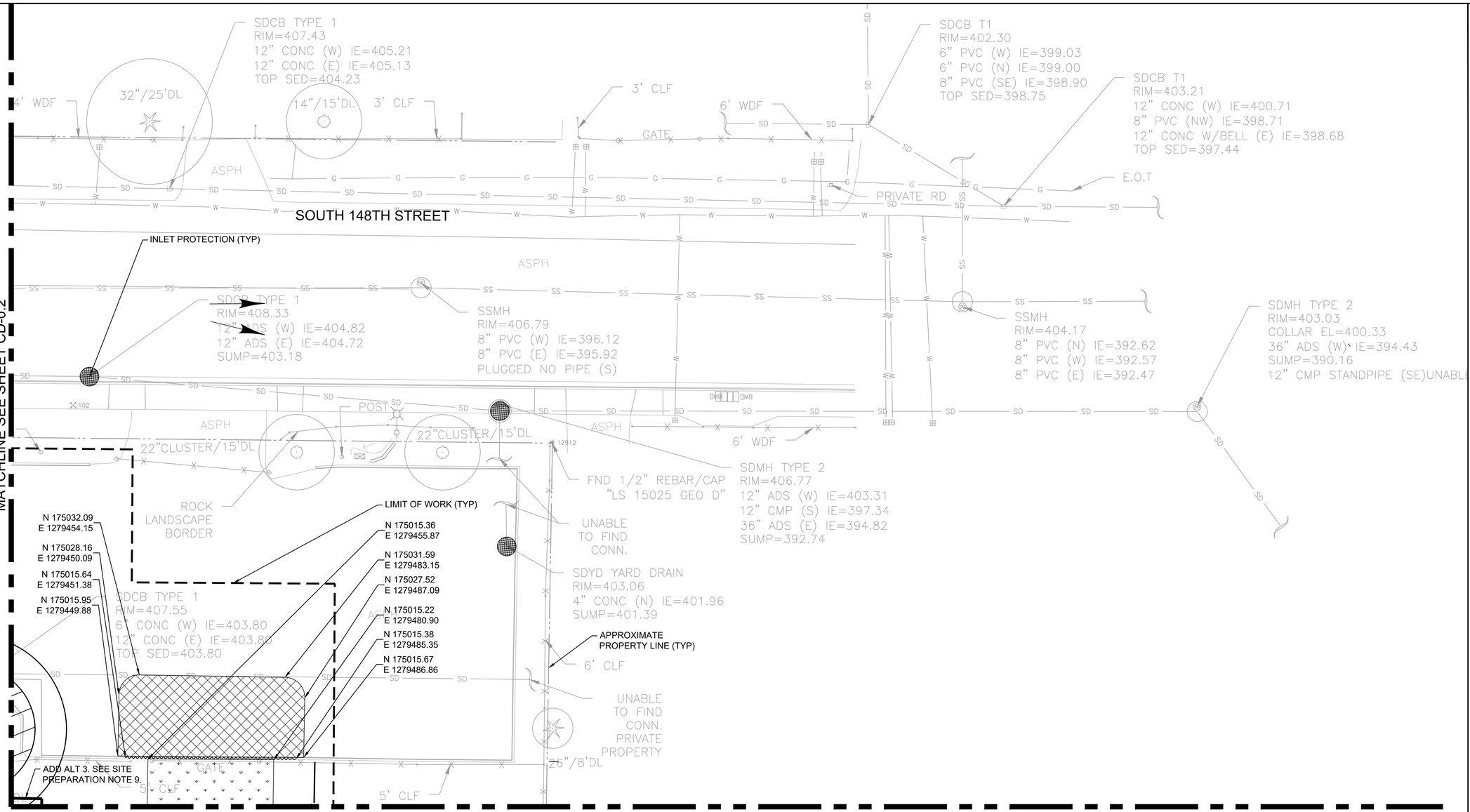
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SITE PREPARATION PLANS

SHEET #

CD-0.2



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EROSION AND SEDIMENT CONTROL LEGEND

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COMPOST SOCK (BMP D.2.1.3.6)

STORM DRAIN INLET PROTECTION (BMP D.2.1.5.3, KCSWDM)

FLOW ARROW

SILT FENCE (BMP D.2.1.3.1, KCSWDM) — SF

SITE PREPARATION NOTES

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CLEARING AND GRUBBING

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SEE PLANTING PLAN

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LIMIT OF WORK

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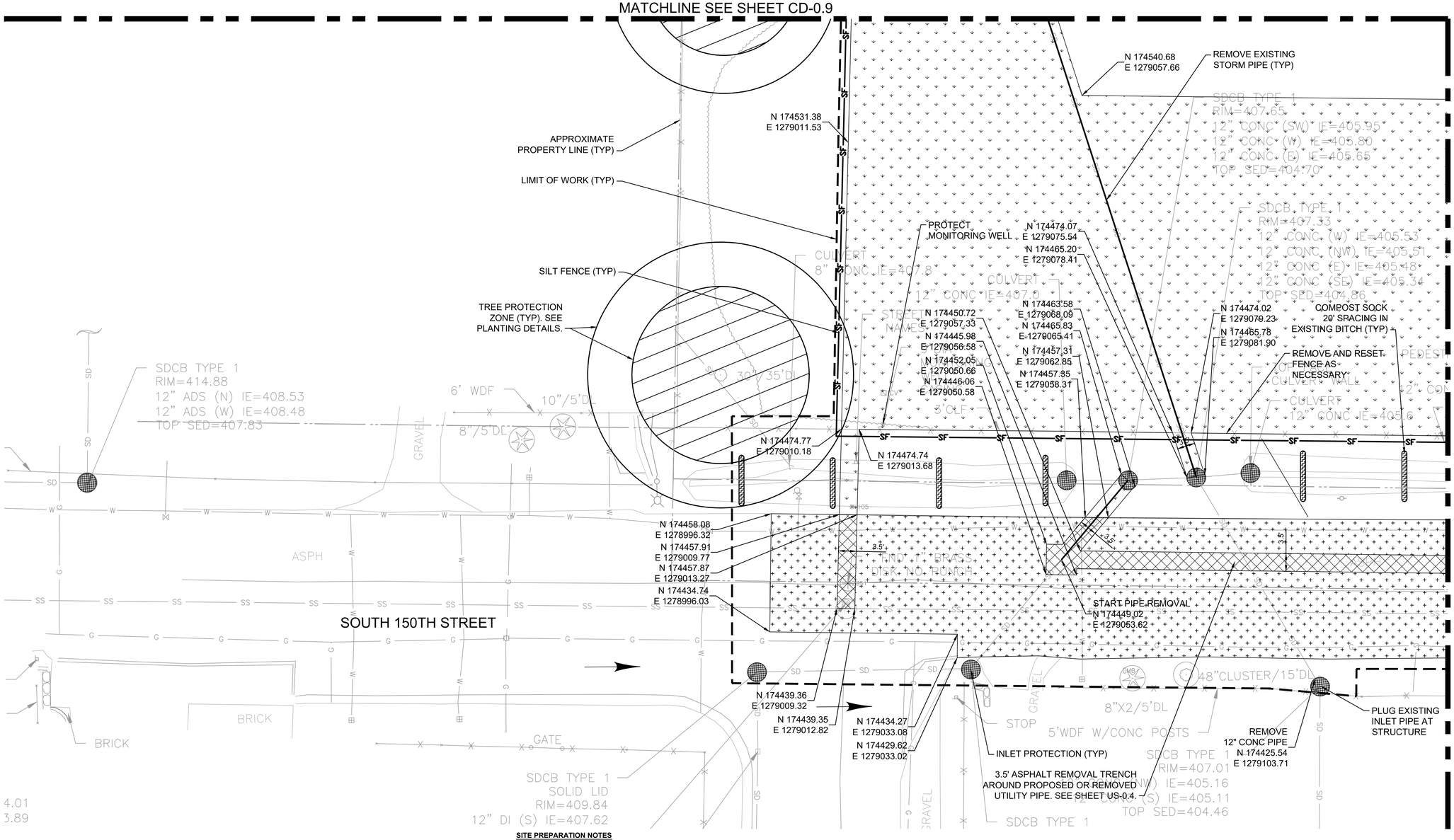
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COMPOST SOCK (BMP D.2.1.3.6)

STORM DRAIN INLET PROTECTION (BMP D.2.1.5.3, KCSWDM)

FLOW ARROW

SILT FENCE (BMP D.2.1.3.1, KCSWDM) — SF —

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TREE PROTECTION ZONE (SEE PLANTING DETAILS)

REMOVE EXISTING STORM STRUCTURE

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SEATAC, WA 98188

CONTACT:
CLYNN WILKINSON
CWILKINSON@SEATAC.GOV
(206) 973-4755

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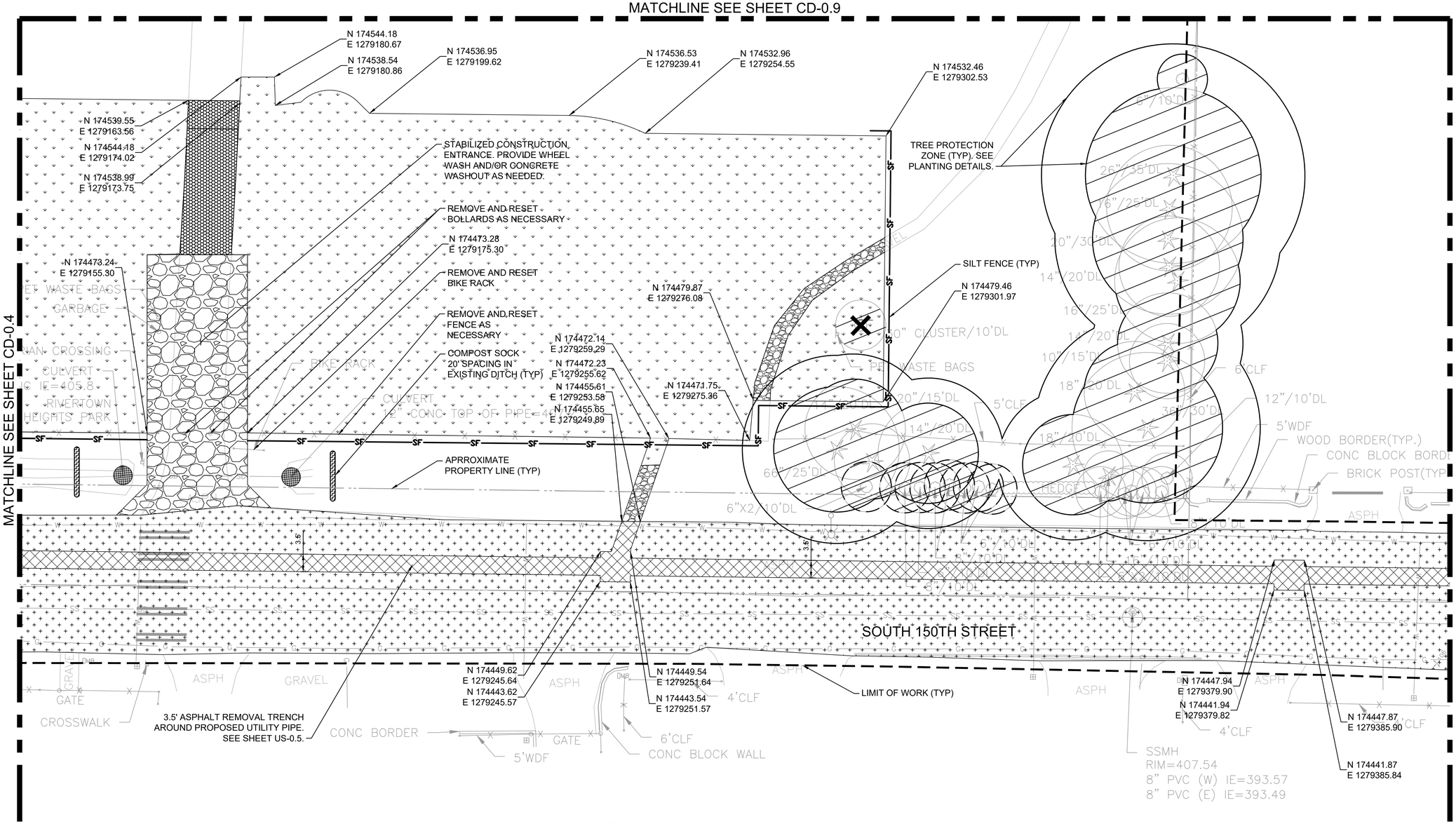
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DATE	**OCTOBER 28, 2026**

SHEET NAME

SITE PREPARATION PLANS

SHEET #

CD-0.4



EROSION AND SEDIMENT CONTROL NOTES

1. ALL EROSION CONTROL MATERIAL SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.
2. CONTRACTOR SHALL UPDATE EROSION CONTROL PLANS TO SHOW STAGING AND STORAGE AREAS ONCE DETERMINED.
3. CONTRACTOR MUST MAINTAIN PAVED AREAS CLEAN OF TRACKED SEDIMENTS FROM CONSTRUCTION ACTIVITIES WITHIN THE LIMITS OF WORK AND WITHIN ADJACENT AREAS POTENTIALLY IMPACTED BY CONSTRUCTION ACTIVITIES.
4. SEE SHEET CN-0.1 FOR ADDITIONAL EROSION AND SEDIMENT CONTROL NOTES.

EROSION AND SEDIMENT CONTROL LEGEND

- STABILIZED CONSTRUCTION ENTRANCE (BMP D.2.1.4.1, KCSWDM)
- COMPOST SOCK (BMP D.2.1.3.6)
- STORM DRAIN INLET PROTECTION (BMP D.2.1.5.3, KCSWDM)
- FLOW ARROW
- SILT FENCE (BMP D.2.1.3.1, KCSWDM) — SF

SITE PREPARATION NOTES

1. CONTRACTOR TO PROTECT ALL IMPROVEMENTS BEYOND THE LIMITS OF DISTURBANCE. CONTRACTOR WILL REPAIR/REPLACE ANY ELEMENTS DAMAGED THAT ARE NOT WITHIN PROJECT LIMITS.
2. ALL EXISTING FENCING WITHIN LIMITS OF DISTURBANCE TO BE REMOVED UNLESS OTHERWISE NOTED.
3. ALL UTILITIES TO BE PROTECTED UNLESS OTHERWISE NOTED.
4. ALL STRUCTURES AND AMENITIES WITHIN LIMITS OF DISTURBANCE TO BE REMOVED UNLESS OTHERWISE NOTED.
5. CONTRACTOR IS RESPONSIBLE FOR PROTECTING ALL TREES NOT FOR REMOVAL OR SALVAGE.
6. FOR SIGN RELOCATIONS AND INSTALLATIONS, SEE SHEETS TP-0.1-TP-0.2
7. ADD ALT 1 SHALL CONSIST OF ALL WORK AND MATERIALS TO REPLACE THE EXISTING ENGINEERED WOOD FIBER AROUND EXISTING PLAY STRUCTURES WITH A POURED IN PLACE RESILIENT SURFACING.
8. ADD ALT 2 SHALL CONSIST OF ALL WORK AND MATERIALS TO INSTALL A SYNTHETIC TURF ATHLETIC FIELD, INCLUDING BUT NOT LIMITED TO, TESC, EARTHWORK, GRADING, DRAINAGE, BASE PLACEMENT AND COMPACTION, FIELD SURFACING, FENCING, PAVING, ROCKERIES, SEEDING AND IRRIGATION AS SHOWN ON PLANS. BASE BID CONDITION SHALL CREATE A 1' WIDE LEVEL AREA ADJACENT TO THE NEW CONCRETE PAVING AND THEN SLOPE GRADES AT 4:1 TO MEET EXISTING GRADES. ANY DISTURBED AREAS SHALL BE SEEDED AND IRRIGATED.
9. ADD ALT 3 SHALL CONSIST OF INSTALLING IRRIGATION LINES, MULCH, AND PLANTINGS AS SHOWN ON THE LANDSCAPE PLANS. SEE SHEET L4.2 FOR IRRIGATION LAYOUT. BASE BID SHALL CONSIST OF GRADING AS SHOWN ON SHEET L2.2, AND RESTORATION SEEDING OF ANY DISTURBED AREAS.

SITE PREPARATION LEGEND

- CEMENT CONCRETE SIDEWALK REMOVAL
- PEDESTRIAN HMA FULL DEPTH REMOVAL
- ROADWAY HMA FULL DEPTH REMOVAL
- ROADWAY HMA GRIND AND OVERLAY
- FULL DEPTH GRAVEL REMOVAL
- CLEARING AND GRUBBING
- TREE PROTECTION ZONE (SEE PLANTING DETAILS)
- REMOVE EXISTING STORM STRUCTURE
- REMOVE EXISTING STORM PIPE
- REMOVE EXISTING TREE
- SALVAGE AND TRANSPLANT TREE. SEE PLANTING PLAN
- REMOVE CONCRETE CURB (AND GUTTER)
- LIMIT OF WORK

N

0 10' 20' 30'

SCALE IN FEET

BID SET

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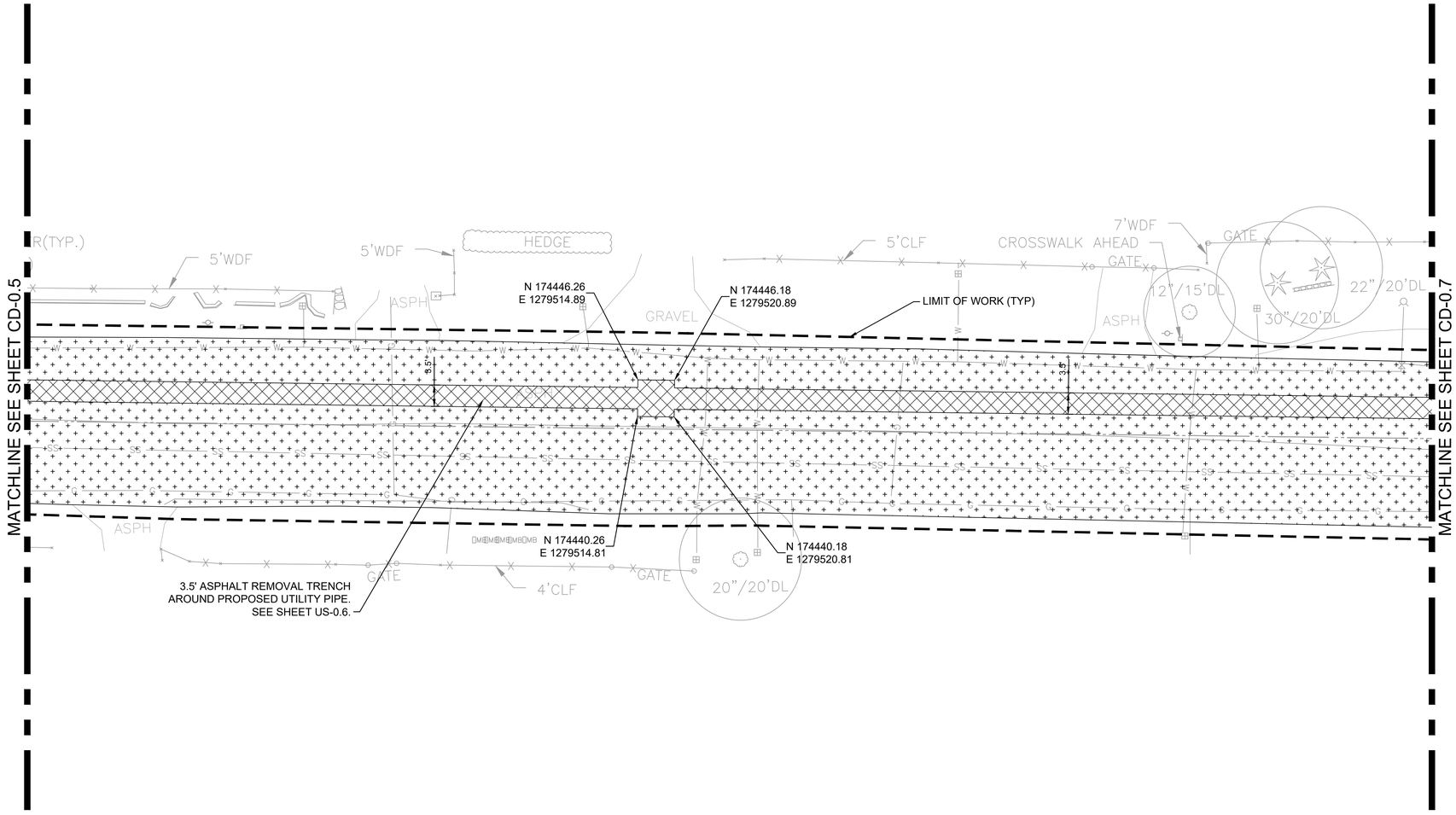
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SHEET NAME

SITE PREPARATION PLANS

SHEET #

CD-0.5



EROSION AND SEDIMENT CONTROL NOTES

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EROSION AND SEDIMENT CONTROL LEGEND

STABILIZED CONSTRUCTION ENTRANCE (BMP D.2.1.4.1, KCSWDM)

COMPOST SOCK (BMP D.2.1.3.6)

STORM DRAIN INLET PROTECTION (BMP D.2.1.5.3, KCSWDM)

FLOW ARROW

SILT FENCE (BMP D.2.1.3.1, KCSWDM) — SF —

SITE PREPARATION NOTES

1. CONTRACTOR TO PROTECT ALL IMPROVEMENTS BEYOND THE LIMITS OF DISTURBANCE. CONTRACTOR WILL REPAIR/REPLACE ANY ELEMENTS DAMAGED THAT ARE NOT WITHIN PROJECT LIMITS.
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SITE PREPARATION LEGEND

CEMENT CONCRETE SIDEWALK REMOVAL

PEDESTRIAN HMA FULL DEPTH REMOVAL

ROADWAY HMA FULL DEPTH REMOVAL

ROADWAY HMA GRIND AND OVERLAY

FULL DEPTH GRAVEL REMOVAL

CLEARING AND GRUBBING

TREE PROTECTION ZONE (SEE PLANTING DETAILS)

REMOVE EXISTING STORM STRUCTURE

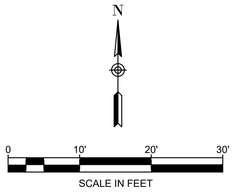
REMOVE EXISTING STORM PIPE

REMOVE EXISTING TREE

SALVAGE AND TRANSPLANT TREE.
SEE PLANTING PLAN

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LIMIT OF WORK



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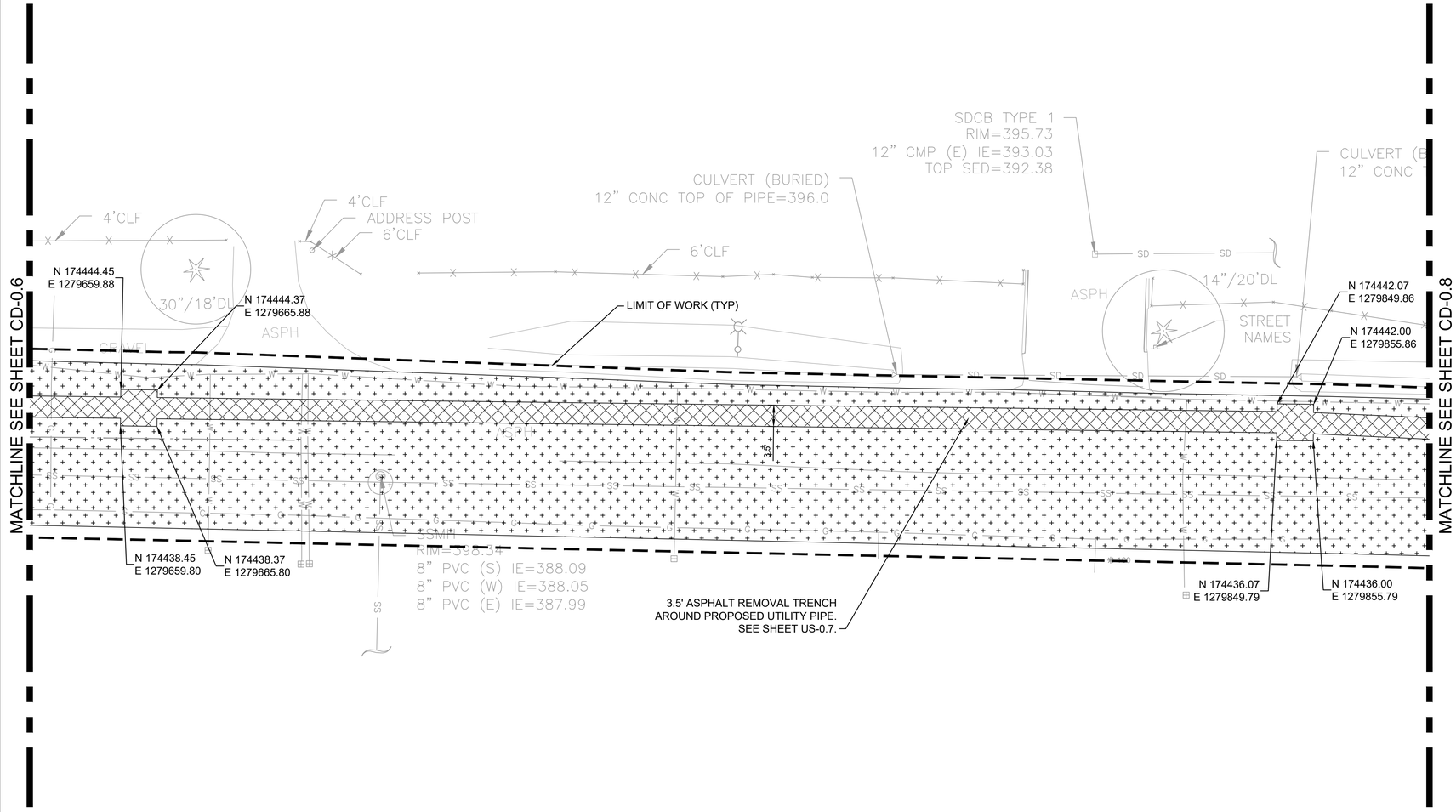
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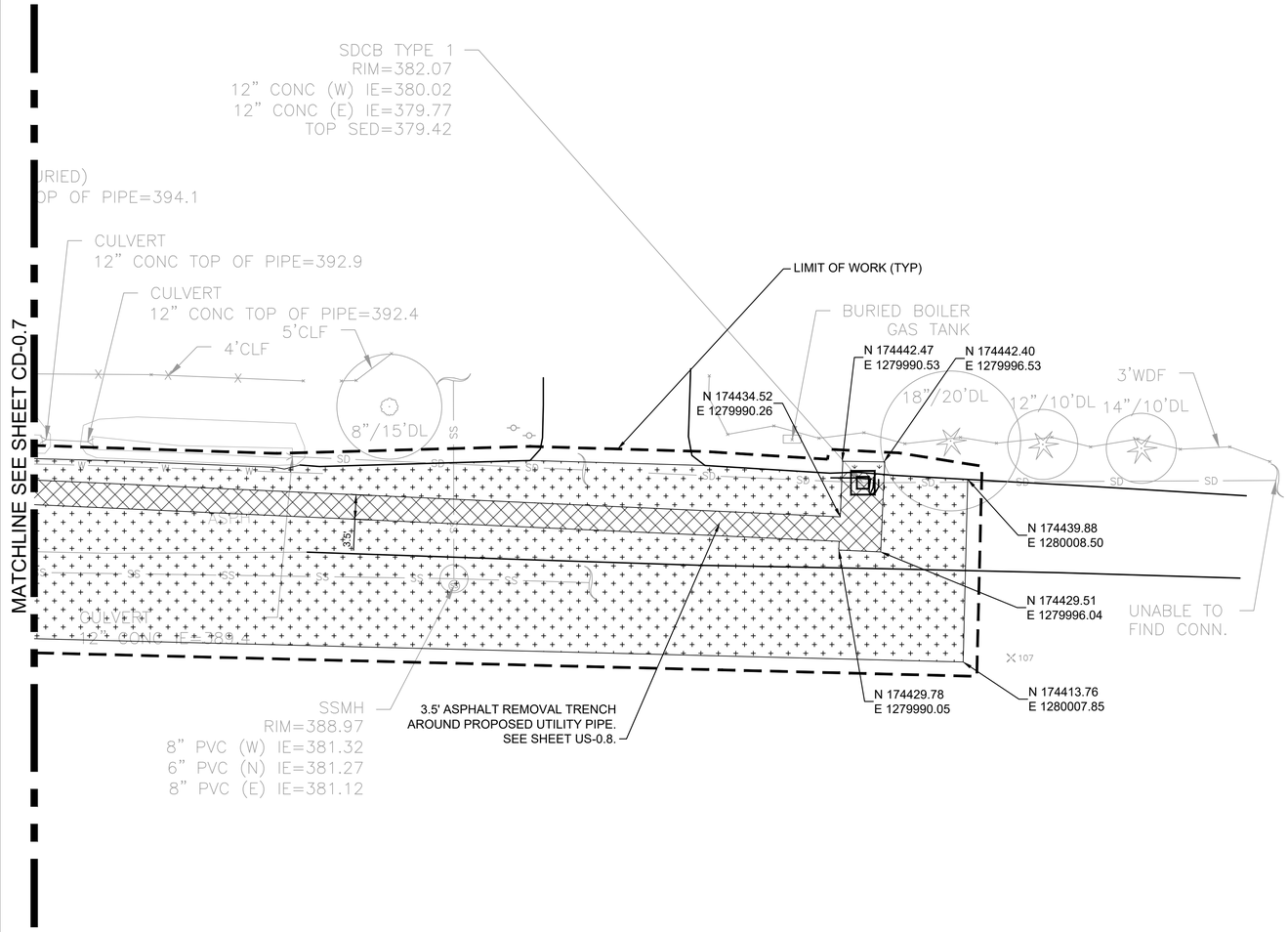
SHEET NAME

SITE PREPARATION PLANS

SHEET #

CD-0.6


MATCHLINE SEE SHEET CD-0.6
MATCHLINE SEE SHEET CD-0.8
4'CLF
30"/18'DL
GRAVEL
N 174444.45
E 1279659.88
N 174444.37
E 1279665.88
4'CLF
ADDRESS POST
6'CLF
ASPH
6'CLF
CULVERT (BURIED)
12" CONC TOP OF PIPE=396.0
LIMIT OF WORK (TYP)
SDCB TYPE 1
RIM=395.73
12" CMP (E) IE=393.03
TOP SED=392.38
SD
SD
SD
SD
14"/20'DL
ASPH
STREET
NAMES
CULVERT (E
12" CONC
N 174442.07
E 1279849.86
N 174442.00
E 1279855.86
3.5'
SS
SS
SS



EROSION AND SEDIMENT CONTROL NOTES

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FLOW ARROW

SILT FENCE (BMP D.2.1.3.1, KCSWDM) — SF —

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LIMIT OF WORK

N

0 10' 20' 30'

SCALE IN FEET

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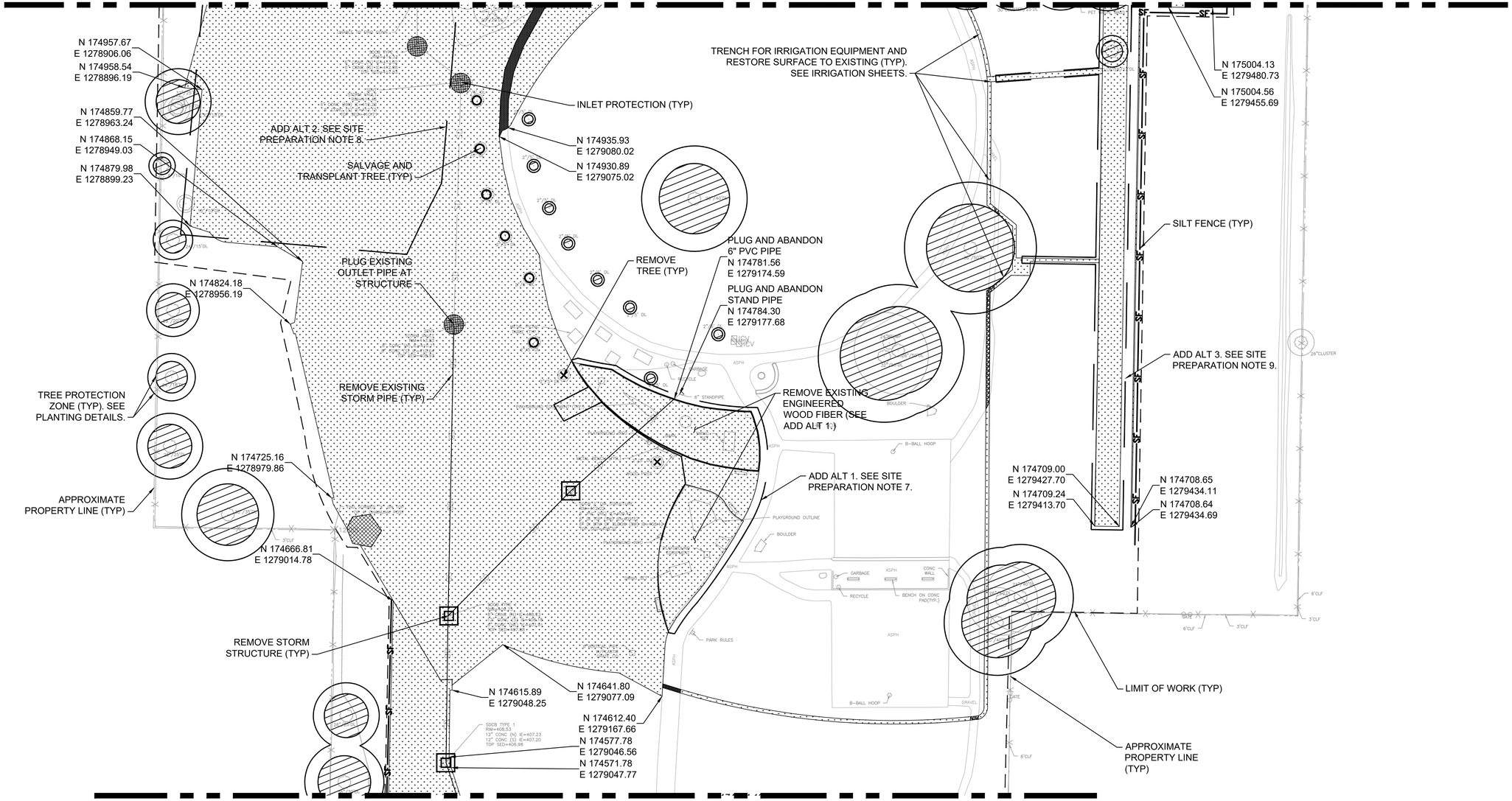
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SHEET NAME

SITE PREPARATION PLANS

SHEET #

CD-0.8



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EROSION AND SEDIMENT CONTROL LEGEND

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- FLOW ARROW
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SITE PREPARATION LEGEND

- CEMENT CONCRETE SIDEWALK REMOVAL
- PEDESTRIAN HMA FULL DEPTH REMOVAL
- ROADWAY HMA FULL DEPTH REMOVAL
- ROADWAY HMA GRIND AND OVERLAY
- FULL DEPTH GRAVEL REMOVAL
- CLEARING AND GRUBBING
- TREE PROTECTION ZONE (SEE PLANTING DETAILS)
- REMOVE EXISTING STORM STRUCTURE
- REMOVE EXISTING STORM PIPE
- REMOVE EXISTING TREE
- SALVAGE AND TRANSPLANT TREE. SEE PLANTING PLAN
- REMOVE CONCRETE CURB (AND GUTTER)
- LIMIT OF WORK

N

0 30' 60' 90'

SCALE IN FEET

BID SET

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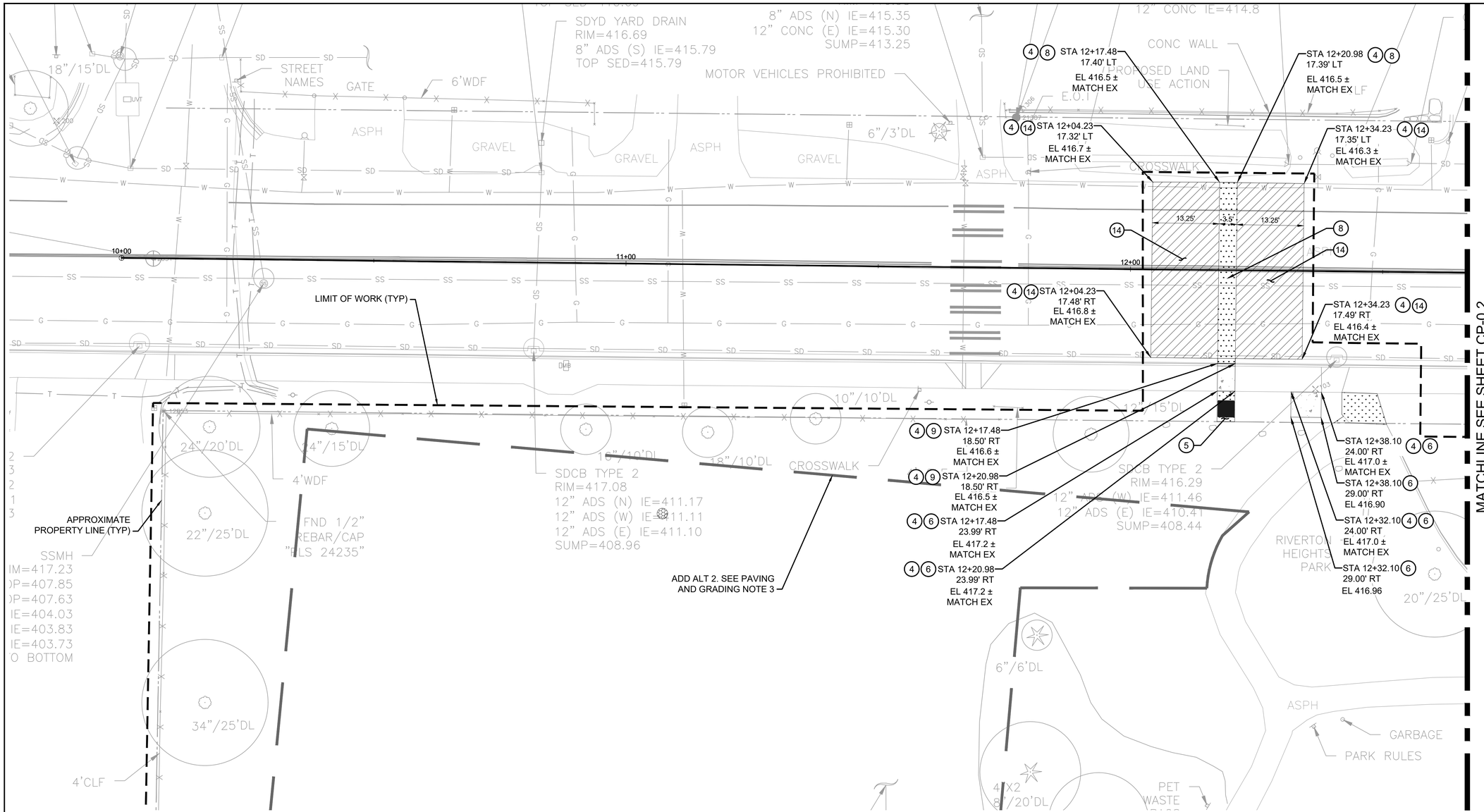
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SHEET NAME

SITE PREPARATION PLANS

SHEET #

CD-0.9



PAVING & GRADING NOTES

1. THE WEARING COURSE AND LEVELING COURSE OF HMA SHALL BE PLACED AS TWO DISTINCT SEPARATE LIFTS.
2. CONTRACTOR TO PROTECT OR ADJUST ANY UTILITIES AND AMENITIES WITHIN THE LIMITS OF DISTURBANCE, UNLESS OTHERWISE NOTED.
3. ADD ALT 2 SHALL CONSIST OF ALL WORK AND MATERIALS TO INSTALL A SYNTHETIC TURF ATHLETIC FIELD, INCLUDING BUT NOT LIMITED TO, TESC, EARTHWORK, GRADING, DRAINAGE, BASE PLACEMENT AND COMPACTION, FIELD SURFACING, FENCING, PAVING, ROCKERIES, SEEDING AND IRRIGATION AS SHOWN ON PLANS. BASE BID CONDITION SHALL CREATE A 1' WIDE LEVEL AREA ADJACENT TO THE NEW CONCRETE PAVING AND THEN SLOPE GRADES AT 4:1 TO MEET EXISTING GRADES. ANY DISTURBED AREAS SHALL BE SEEDED AND IRRIGATED.

CONSTRUCTION NOTES

1. ADJUST UTILITY TO FINISHED GRADE
2. NOT USED
3. NOT USED
4. MATCH EXISTING GRADE
5. INSTALL LANDSCAPE PER LANDSCAPING SHEETS.
6. INSTALL CEMENT CONC. SIDEWALK PER 2016 KCDCS FIG. 3-001
7. NOT USED
8. INSTALL FULL DEPTH ROADWAY HMA PER 2016 KCDCS FIG. 2-002 AND SECT 4.05
9. INSTALL CEMENT CONC. VERTICAL CURB AND GUTTER PER 2016 KCDCS FIG. 3-002
10. NOT USED
11. NOT USED
12. NOT USED
13. NOT USED
14. 2" HMA GRIND AND OVERLAY OVER EXISTING ASPHALT PAVEMENT
15. NOT USED
16. RESTORE ASPHALT PATH TO EXISTING SECTION
17. RESTORE GRAVEL TO EXISTING DEPTH

PAVING LEGEND

- LANDSCAPING PER LANDSCAPING SHEETS
- CEMENT CONC. SIDEWALK: CONCRETE CLASS 4000, 4" THICKNESS (2016 KCDCS FIG. 3-001)
- FULL DEPTH ROADWAY HMA: 4" HMA (CL 1/2") OVER 8 1/2" CSBC
- GRIND AND OVERLAY HMA: 2" HMA (CL 1/2") OVER EXISTING PAVEMENT
- CEMENT CONC. VERTICAL CURB AND GUTTER, CONCRETE CLASS 4000 (2016 KCRDCS FIG. 3-002)
- RESTORE ASPHALT PATH TO EXISTING SECTION
- RESTORE GRAVEL TO EXISTING DEPTH

N

0 10' 20' 30'

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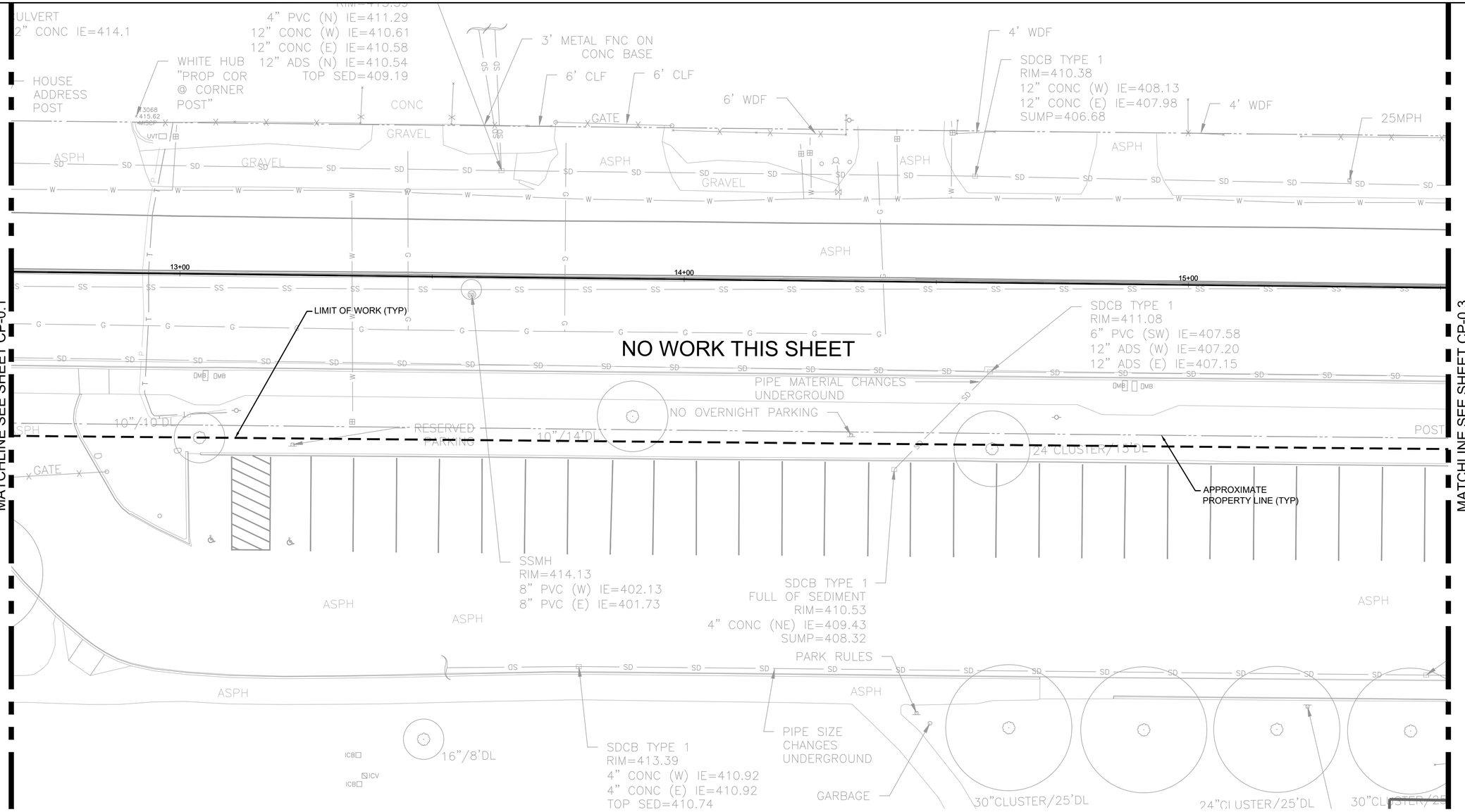
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SHEET NAME

PAVING AND GRADING PLANS

SHEET #

CP-0.1



PAVING & GRADING NOTES

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CONSTRUCTION NOTES

1. ADJUST UTILITY TO FINISHED GRADE
2. NOT USED
3. NOT USED
4. MATCH EXISTING GRADE
5. INSTALL LANDSCAPE PER LANDSCAPING SHEETS.
6. INSTALL CEMENT CONC. SIDEWALK PER 2016 KCDCS FIG. 3-001
7. NOT USED
8. INSTALL FULL DEPTH ROADWAY HMA PER 2016 KCDCS FIG. 2-002 AND SECT 4.05
9. INSTALL CEMENT CONC. VERTICAL CURB AND GUTTER PER 2016 KCDCS FIG. 3-002
10. NOT USED
11. NOT USED
12. NOT USED
13. NOT USED
14. 2" HMA GRIND AND OVERLAY OVER EXISTING ASPHALT PAVEMENT
15. NOT USED
16. RESTORE ASPHALT PATH TO EXISTING SECTION
17. RESTORE GRAVEL TO EXISTING DEPTH

PAVING LEGEND

- LANDSCAPING PER LANDSCAPING SHEETS
- CEMENT CONC. SIDEWALK: CONCRETE CLASS 4000, 4" THICKNESS (2016 KCDCS FIG. 3-001)
- FULL DEPTH ROADWAY HMA: 4" HMA (CL 1/2") OVER 8 1/2" CSBC
- GRIND AND OVERLAY HMA: 2" HMA (CL 1/2") OVER EXISTING PAVEMENT
- CEMENT CONC. VERTICAL CURB AND GUTTER, CONCRETE CLASS 4000 (2016 KCRDCS FIG. 3-002)
- RESTORE ASPHALT PATH TO EXISTING SECTION
- RESTORE GRAVEL TO EXISTING DEPTH

N

0 10' 20' 30'

SCALE IN FEET

BID SET

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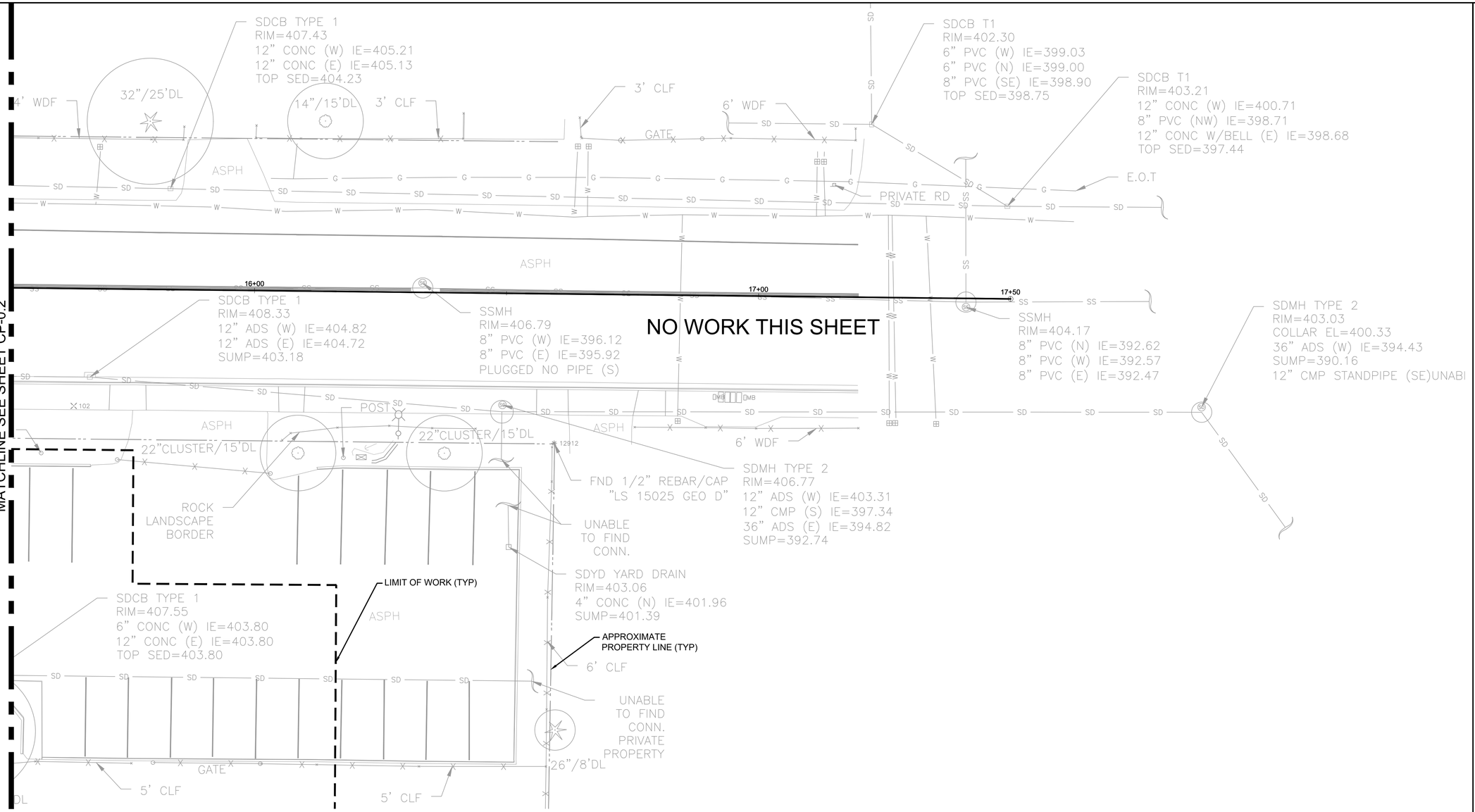
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PAVING LEGEND

- LANDSCAPING PER LANDSCAPING SHEETS
- CEMENT CONC. SIDEWALK: CONCRETE CLASS 4000, 4" THICKNESS (2016 KCDCS FIG. 3-001)
- FULL DEPTH ROADWAY HMA: 4" HMA (CL 1/2") OVER 8 1/2" CSBC
- GRIND AND OVERLAY HMA: 2" HMA (CL 1/2") OVER EXISTING PAVEMENT
- CEMENT CONC. VERTICAL CURB AND GUTTER, CONCRETE CLASS 4000 (2016 KCRDCS FIG. 3-002)
- RESTORE ASPHALT PATH TO EXISTING SECTION
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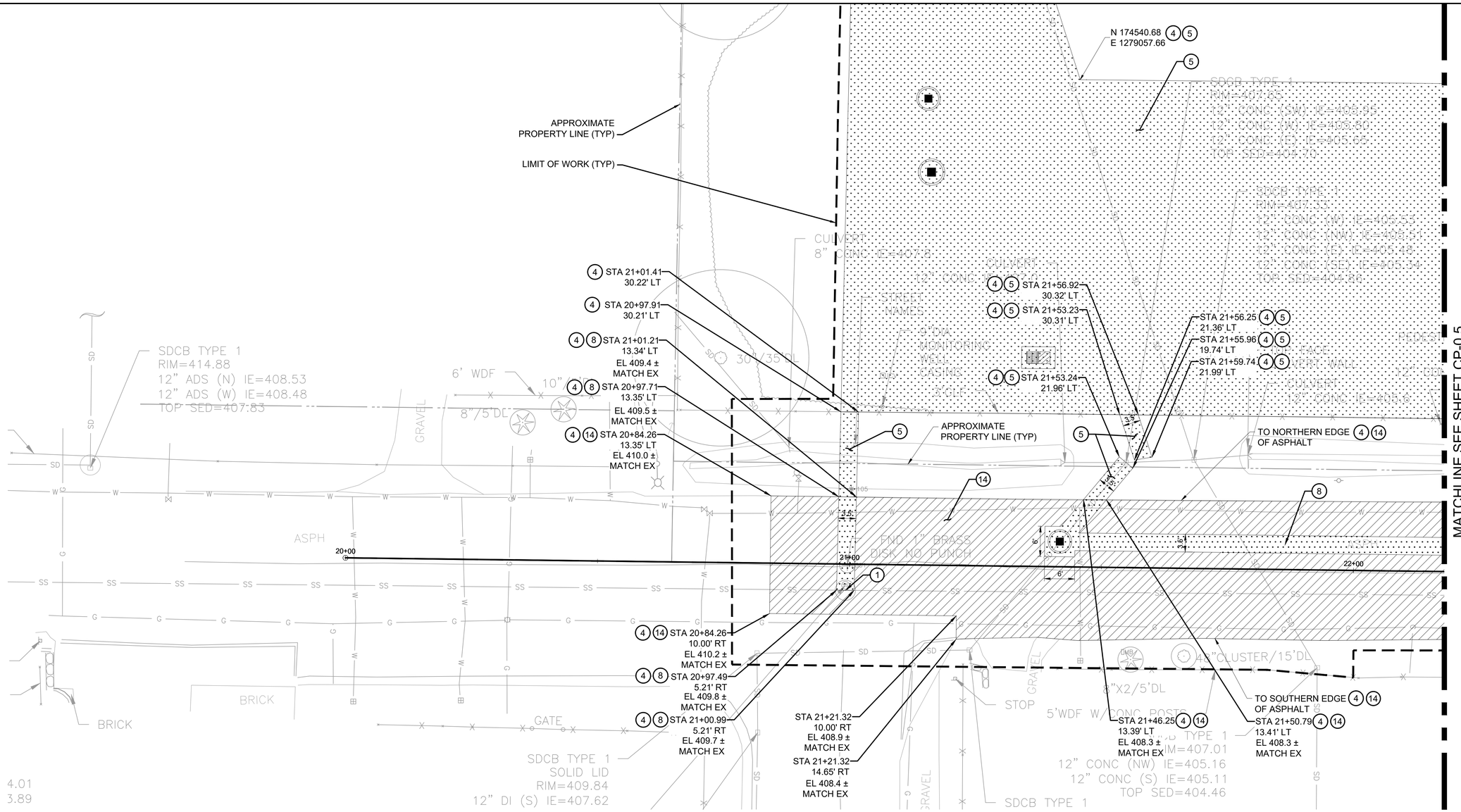
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PAVING & GRADING NOTES

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CONSTRUCTION NOTES

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(5) INSTALL LANDSCAPE PER LANDSCAPING SHEETS.
(6) INSTALL CEMENT CONC. SIDEWALK PER 2016 KCDCS FIG. 3-001
(7) NOT USED
(8) INSTALL FULL DEPTH ROADWAY HMA PER 2016 KCDCS FIG. 2-002 AND SECT 4.05
(9) INSTALL CEMENT CONC. VERTICAL CURB AND GUTTER PER 2016 KCDCS FIG. 3-002
(10) NOT USED
(11) NOT USED
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(13) NOT USED
(14) 2" HMA GRIND AND OVERLAY OVER EXISTING ASPHALT PAVEMENT
(15) NOT USED
(16) RESTORE ASPHALT PATH TO EXISTING SECTION
(17) RESTORE GRAVEL TO EXISTING DEPTH

PAVING LEGEND

LANDSCAPING PER LANDSCAPING SHEETS

CEMENT CONC. SIDEWALK: CONCRETE CLASS 4000, 4" THICKNESS (2016 KCDCS FIG. 3-001)

FULL DEPTH ROADWAY HMA: 4" HMA (CL 1/2") OVER 8 1/2" CSBC

GRIND AND OVERLAY HMA: 2" HMA (CL 1/2") OVER EXISTING PAVEMENT

CEMENT CONC. VERTICAL CURB AND GUTTER, CONCRETE CLASS 4000 (2016 KCRDCS FIG. 3-002)

RESTORE ASPHALT PATH TO EXISTING SECTION

RESTORE GRAVEL TO EXISTING DEPTH

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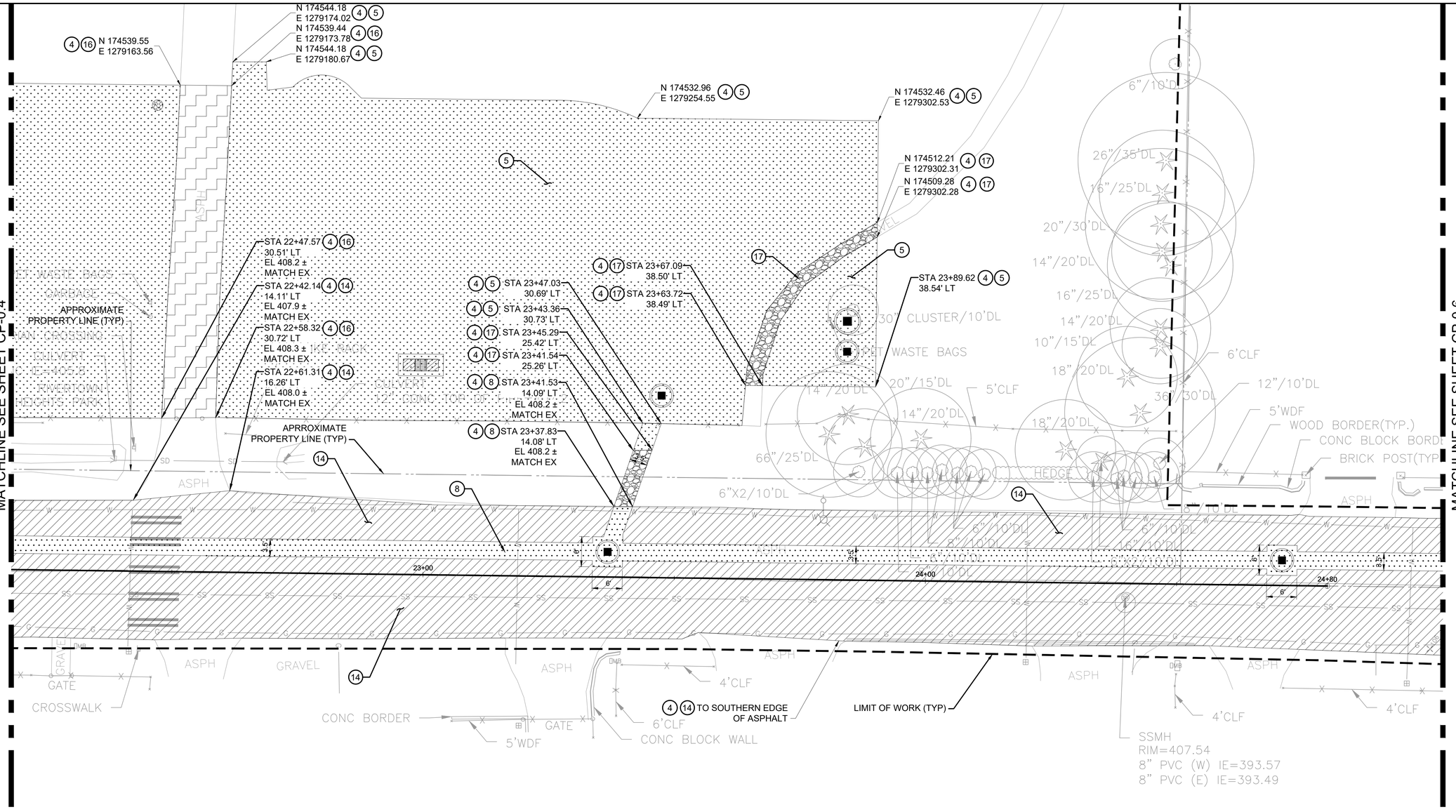
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PAVING LEGEND

- LANDSCAPING PER LANDSCAPING SHEETS
- CEMENT CONC. SIDEWALK: CONCRETE CLASS 4000, 4" THICKNESS (2016 KCDCS FIG. 3-001)
- FULL DEPTH ROADWAY HMA: 4" HMA (CL 1/2") OVER 8 1/2" CSBC
- GRIND AND OVERLAY HMA: 2" HMA (CL 1/2") OVER EXISTING PAVEMENT
- CEMENT CONC. VERTICAL CURB AND GUTTER, CONCRETE CLASS 4000 (2016 KCRDCS FIG. 3-002)
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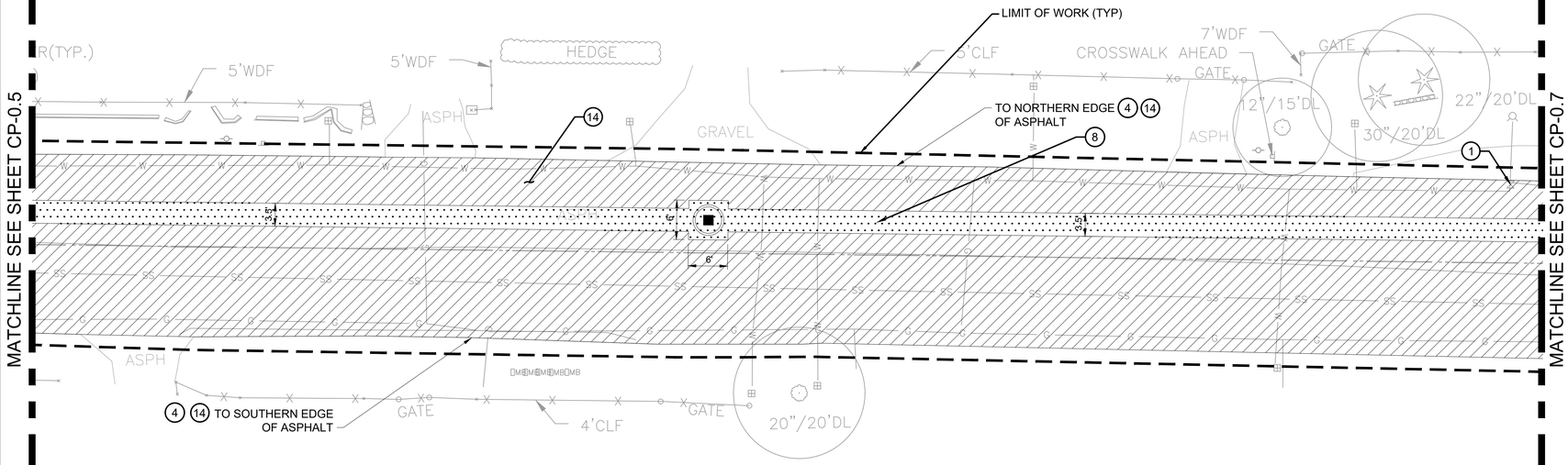
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PAVING LEGEND

- LANDSCAPING PER LANDSCAPING SHEETS
- CEMENT CONC. SIDEWALK: CONCRETE CLASS 4000, 4" THICKNESS (2016 KCDCS FIG. 3-001)
- FULL DEPTH ROADWAY HMA: 4" HMA (CL 1/2") OVER 8 1/2" CSBC
- GRIND AND OVERLAY HMA: 2" HMA (CL 1/2") OVER EXISTING PAVEMENT
- CEMENT CONC. VERTICAL CURB AND GUTTER, CONCRETE CLASS 4000 (2016 KCRDCS FIG. 3-002)
- RESTORE ASPHALT PATH TO EXISTING SECTION
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N

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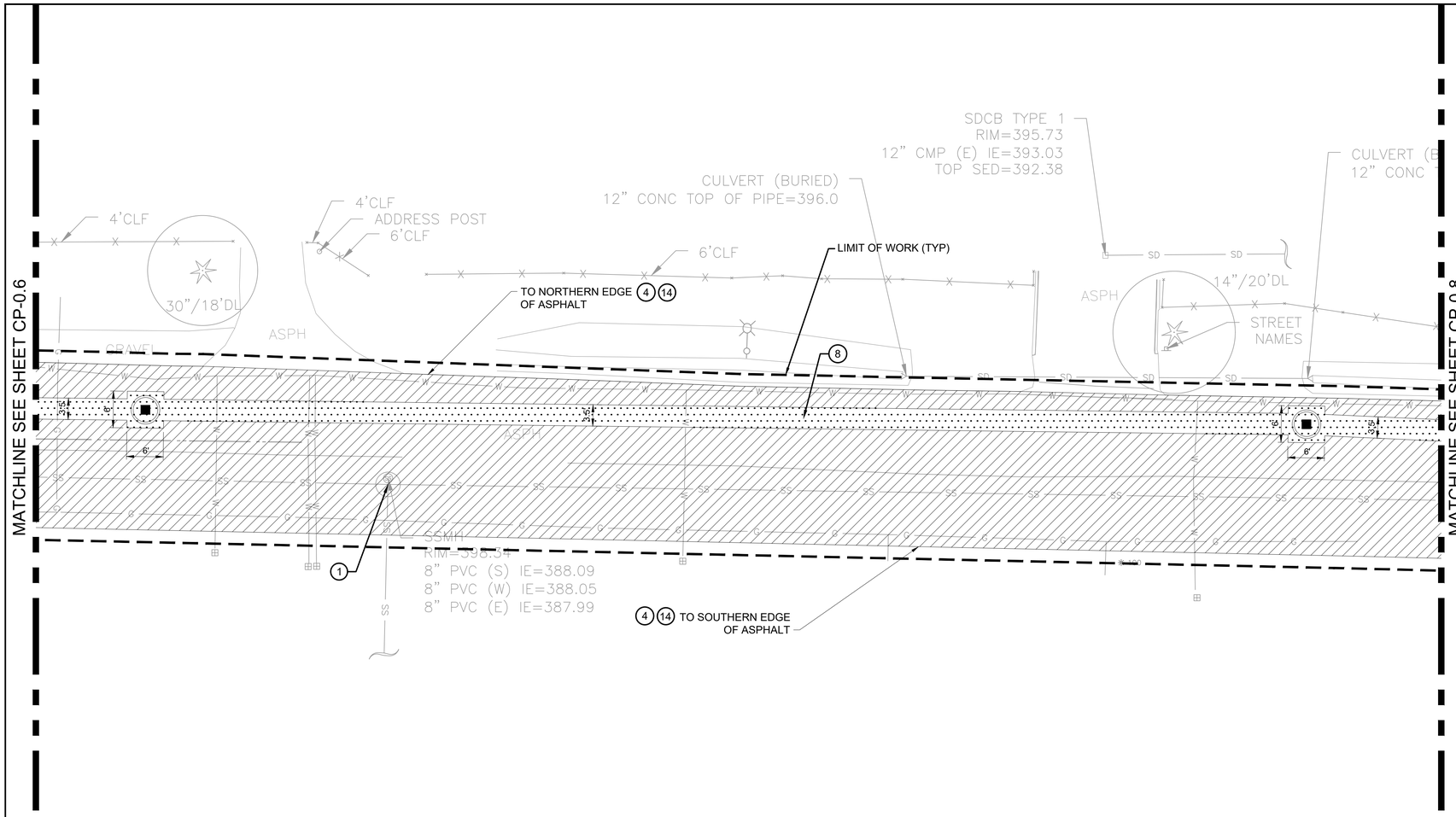
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PAVING & GRADING NOTES

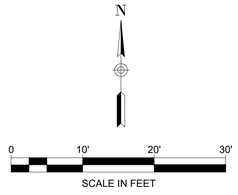
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PAVING LEGEND

- LANDSCAPING PER LANDSCAPING SHEETS
- CEMENT CONC. SIDEWALK: CONCRETE CLASS 4000, 4" THICKNESS (2016 KCDCS FIG. 3-001)
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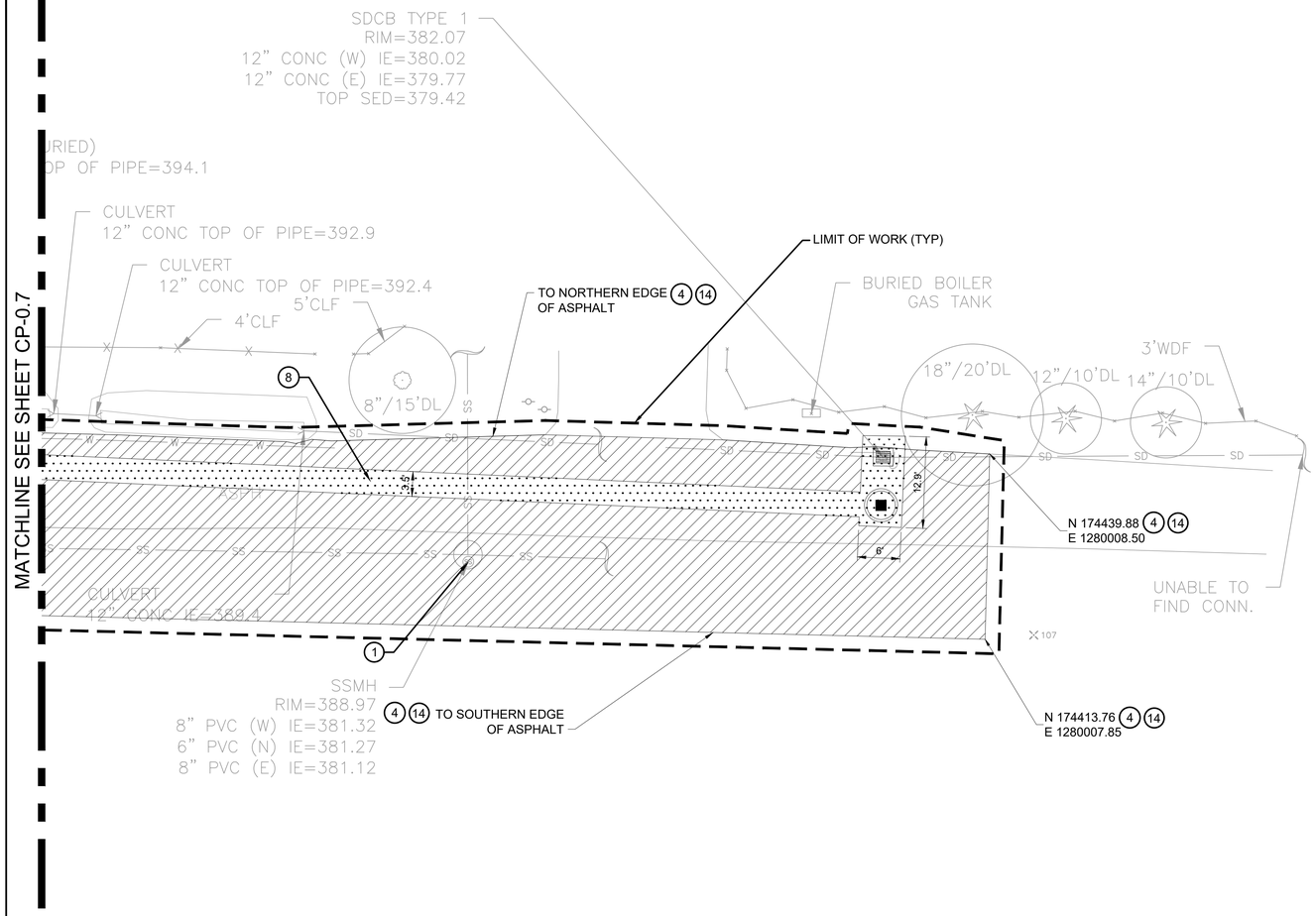
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PAVING & GRADING NOTES

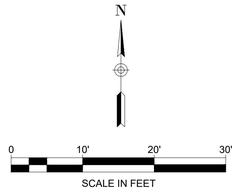
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PAVING LEGEND

- LANDSCAPING PER LANDSCAPING SHEETS
- CEMENT CONC. SIDEWALK: CONCRETE CLASS 4000, 4" THICKNESS (2016 KCDCS FIG. 3-001)
- FULL DEPTH ROADWAY HMA: 4" HMA (CL 1/2") OVER 8 1/2" CSBC
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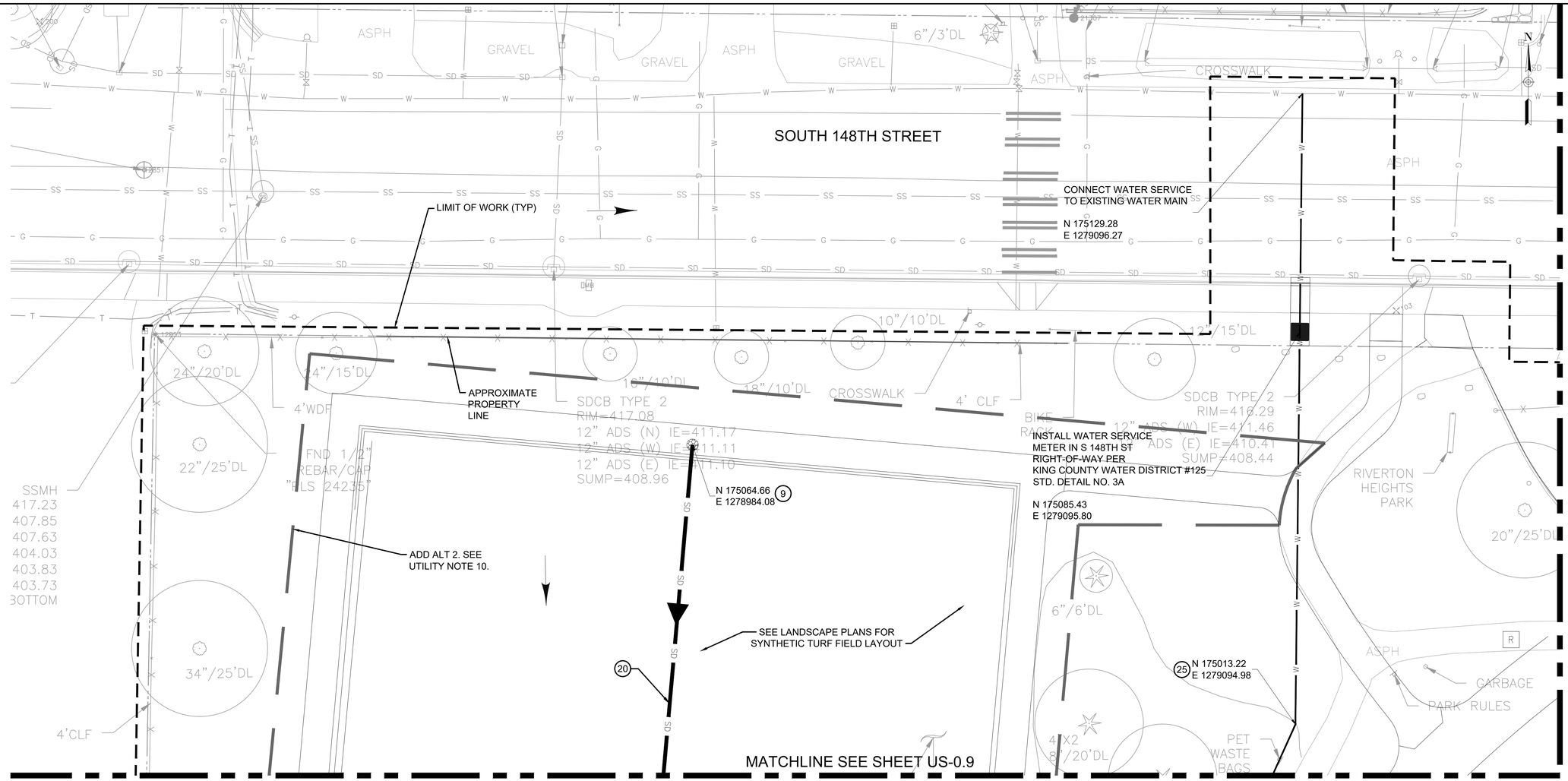
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DATE	OCTOBER 28, 2026

SHEET NAME
PAVING AND GRADING PLANS

SHEET #
CP-0.8



UTILITY NOTES

1. NO PART OF THE DRAINAGE SYSTEM OR SANITARY SEWER SYSTEM SHALL BE COVERED, CONCEALED, OR PUT INTO USE UNTIL IT HAS BEEN INSPECTED, TESTED, AND ACCEPTED BY THE CITY OF SEATAC.
2. ALL WORK AND MATERIAL SHALL CONFORM TO THE KING COUNTY ROAD DESIGN AND CONSTRUCTION STANDARDS, THE WSDOT/APWA STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION (2027).
3. APPROXIMATE LOCATIONS OF EXISTING UTILITIES HAVE BEEN OBTAINED FROM AVAILABLE RECORDS AND ARE SHOWN FOR CONVENIENCE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF LOCATIONS AND TO AVOID DAMAGE TO ANY ADDITIONAL UTILITIES SHOWN. IF CONFLICTS WITH EXISTING UTILITIES ARISE DURING CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE PUBLIC WORKS INSPECTOR AND ANY CHANGES REQUIRED SHALL BE APPROVED BY THE CITY ENGINEER PRIOR TO COMMENCEMENT OF RELATED CONSTRUCTION ON THE PROJECT.
4. ALL STORM SYSTEMS AND SANITARY SEWER SYSTEMS WITHIN THE PUBLIC RIGHT-OF-WAY OR IN EASEMENTS MUST BE STAKED BY SURVEY FOR LINE AND GRADE PRIOR TO STARTING CONSTRUCTION.
5. STORMWATER DESIGN SHALL FOLLOW CITY ADOPTED STORMWATER MANAGEMENT MANUAL, POLICIES AND CRITERIA SET FORTH IN THE SEATAC MUNICIPAL CODE (SMC).
6. CONTRACTOR SHALL POTHOLE UTILITIES IN VICINITY OF PROPOSED STORM AND SANITARY SYSTEM WITH APPROXIMATE LOCATIONS PRIOR TO INSTALLATION.
7. FOR UTILITY PROFILES, SEE SHEETS UP-0.1 - UP-0.5.
8. FOR UTILITY DETAILS, SEE SHEETS UD-0.1 - UD-0.9.
9. ADD ALT 1. SEE SITE PREPARATION NOTE 7 ON SHEETS CD-0.1-CD-0.9.
10. ADD ALT 2. SEE SITE PREPARATION NOTE 8 ON SHEETS CD-0.1-CD-0.9.
11. ADD ALT 3. SEE SITE PREPARATION NOTE 9 ON SHEETS CD-0.1-CD-0.9.

CONSTRUCTION NOTES

1. INSTALL STRUCTURE OVER EXISTING PIPE
2. ADJUST EXISTING STRUCTURE TO FINISHED GRADE
3. INSTALL CATCH BASIN TYPE 1 PER WSDOT STD. PLAN B-5.20-03
4. INSTALL CATCH BASIN TYPE 2 (48"), PER WSDOT STD. PLAN B-10.20-03
5. INSTALL CATCH BASIN TYPE 2 (54"), PER WSDOT STD. PLAN B-10.20-03
6. INSTALL MANHOLE TYPE 1 (48") WITH MANHOLE RING AND COVER, PER WSDOT STD. PLAN B-15.20-01
7. INSTALL FLOW RESTRICTOR PER KING COUNTY STD. FIG. 7-027
8. NOT USED
9. INSTALL 8-INCH STORMWATER CLEAN-OUT, PER WSDOT STD. PLAN B-85.40-00
10. INSTALL CONTECH STORMFILTER, SEE PLANS/PROFILES FOR SIZE/LAYOUT. SEE UTILITY DETAILS FOR STRUCTURE INFO.
11. INSTALL RECTANGULAR FRAME AND VANED GRATE FOR CATCH BASIN PER WSDOT STD. PLANS B-30.10-03, B-30.30-03
12. INSTALL RECTANGULAR FRAME AND SOLID METAL COVER FOR CATCH BASIN PER WSDOT STD. PLANS B-30.10-03, B-30.20-04
13. INSTALL SOLID CIRCULAR FRAME AND COVER FOR CATCH BASIN, PER WSDOT STD. PLAN B-30.70-04
14. INSTALL SOLID CIRCULAR FRAME AND CIRCULAR GRATE FOR CATCH BASIN, PER WSDOT STD. PLAN B-30.70-04, B-30.80-01
15. INSTALL PERFORATED PVC AREA UNDERDRAIN. SEE PLANS/PROFILES FOR SIZE/SLOPE.
16. INSTALL PVC STORM DRAIN PIPE. SEE PLANS/PROFILES FOR SIZE/SLOPE.
17. INSTALL SANITARY SEWER PIPE. SEE PLANS/PROFILES FOR MATERIAL/SIZE/SLOPE.
18. NOT USED
19. INSTALL DUCTILE IRON STORM DRAIN PIPE. SEE PLANS/PROFILES FOR SIZE/SLOPE.
20. INSTALL 8-INCH DIAM. PERFORATED PVC UNDERDRAIN FOR SYNTHETIC TURF SURFACING, SEE DETAIL 6, SHEET L5.6
21. INSTALL CORRUGATED METAL PIPE (CMP) FOR DETENTION FACILITY. SEE PLANS/PROFILES FOR SIZE/SLOPE.
22. INSTALL 36" CORRUGATED METAL PIPE (CMP) CONNECTION TO FLOW CONTROL STRUCTURE, PER KCSWDM FIGURE 5.1.2.A
23. INSTALL ACCESS RISER, PER KCSWDM FIGURE 5.1.2.A-B
24. UNDERDRAIN SYSTEM POINT OF CONNECTION
25. 3" WATER LINE BEND (22.5 DEGREE BEND)
26. INSTALL CORRUGATED METAL PIPE CONNECTION TO DETENTION FACILITY. SEE PLANS/PROFILES FOR SIZE/SLOPE.

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- STORM SEWER PIPE (SEE PLANS AND PROFILES FOR DIMENSIONS AND MATERIAL)
- SANITARY SEWER PIPE (SEE PLANS AND PROFILES FOR DIMENSIONS AND MATERIAL)
- WATER SERVICE CONNECTION
- PVC AREA UNDERDRAIN (SEE DETAIL 1, SHEET UD-0.1)
- CATCH BASIN TYPE 1 (PER WSDOT STD. PLAN B-5.20-03)
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- WATER SERVICE METER PER KING COUNTY WATER DISTRICT #125 STD. DTL. 3A
- PIPE FLOW ARROW
- SURFACE FLOW ARROW
- LIMIT OF WORK

0 10' 20' 30'
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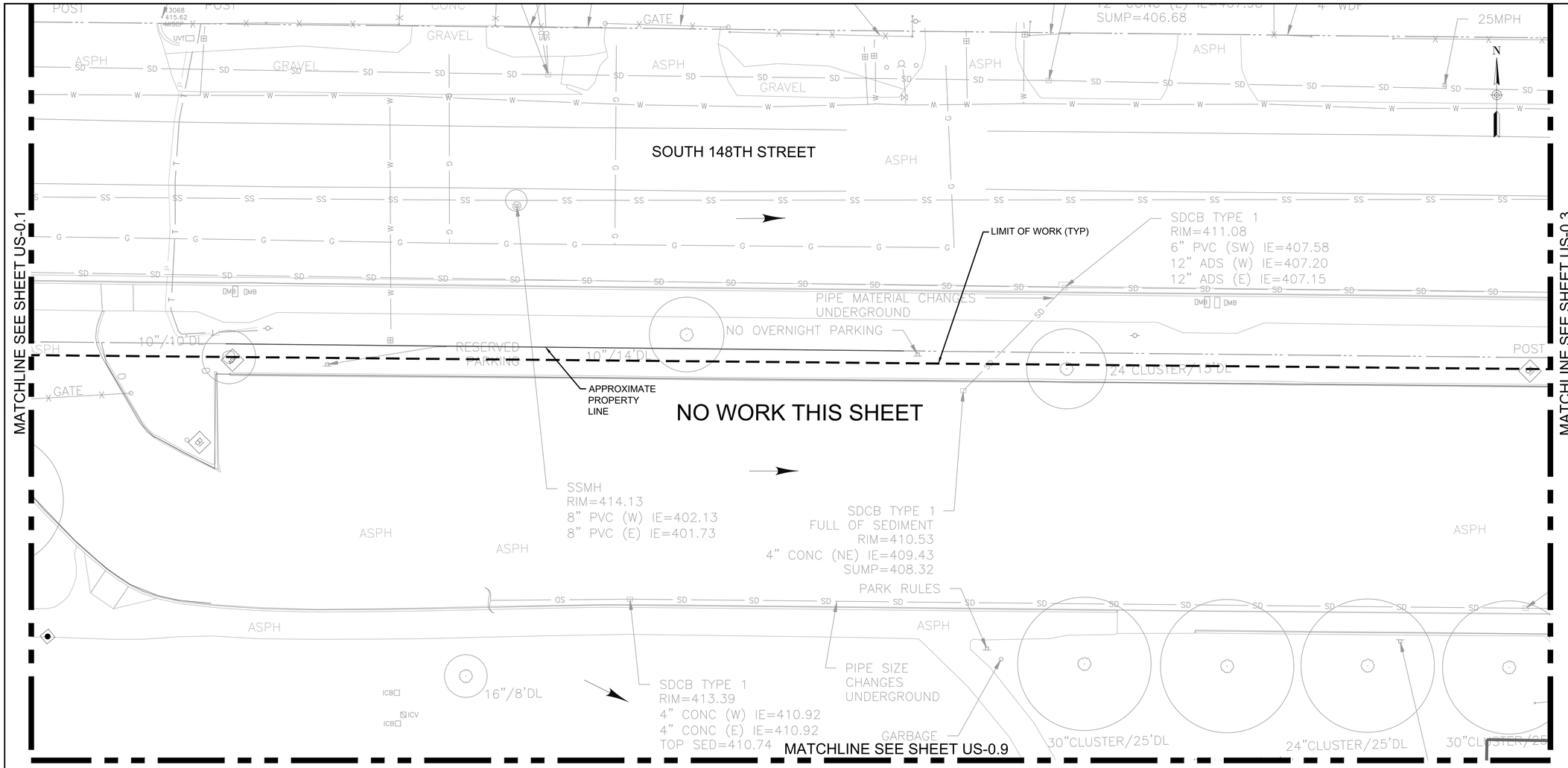
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(206) 973-4755

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SHEET NAME
UTILITY PLANS

SHEET #
US-0.1



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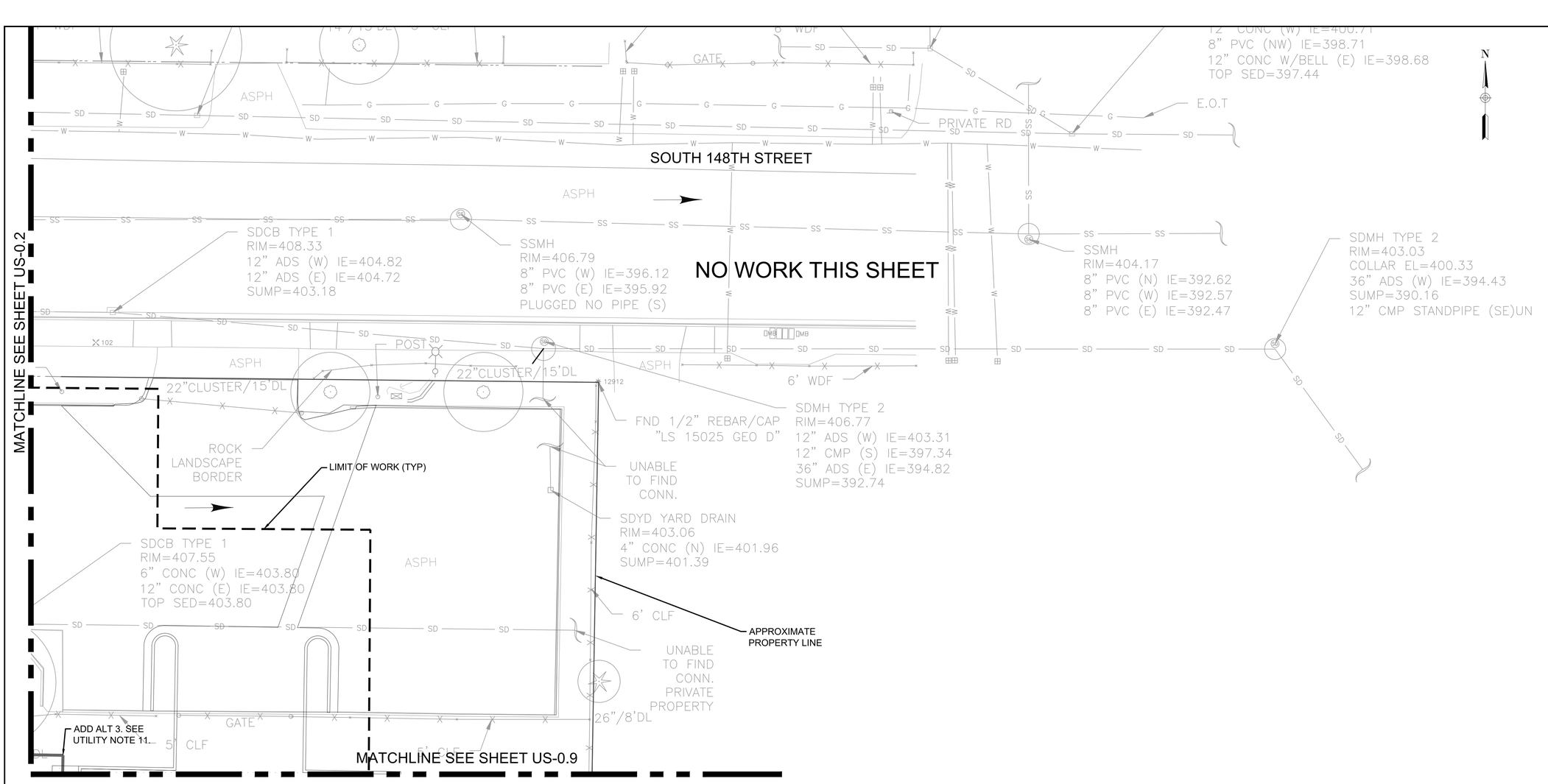
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SHEET NAME

UTILITY PLANS

SHEET #

US-0.2



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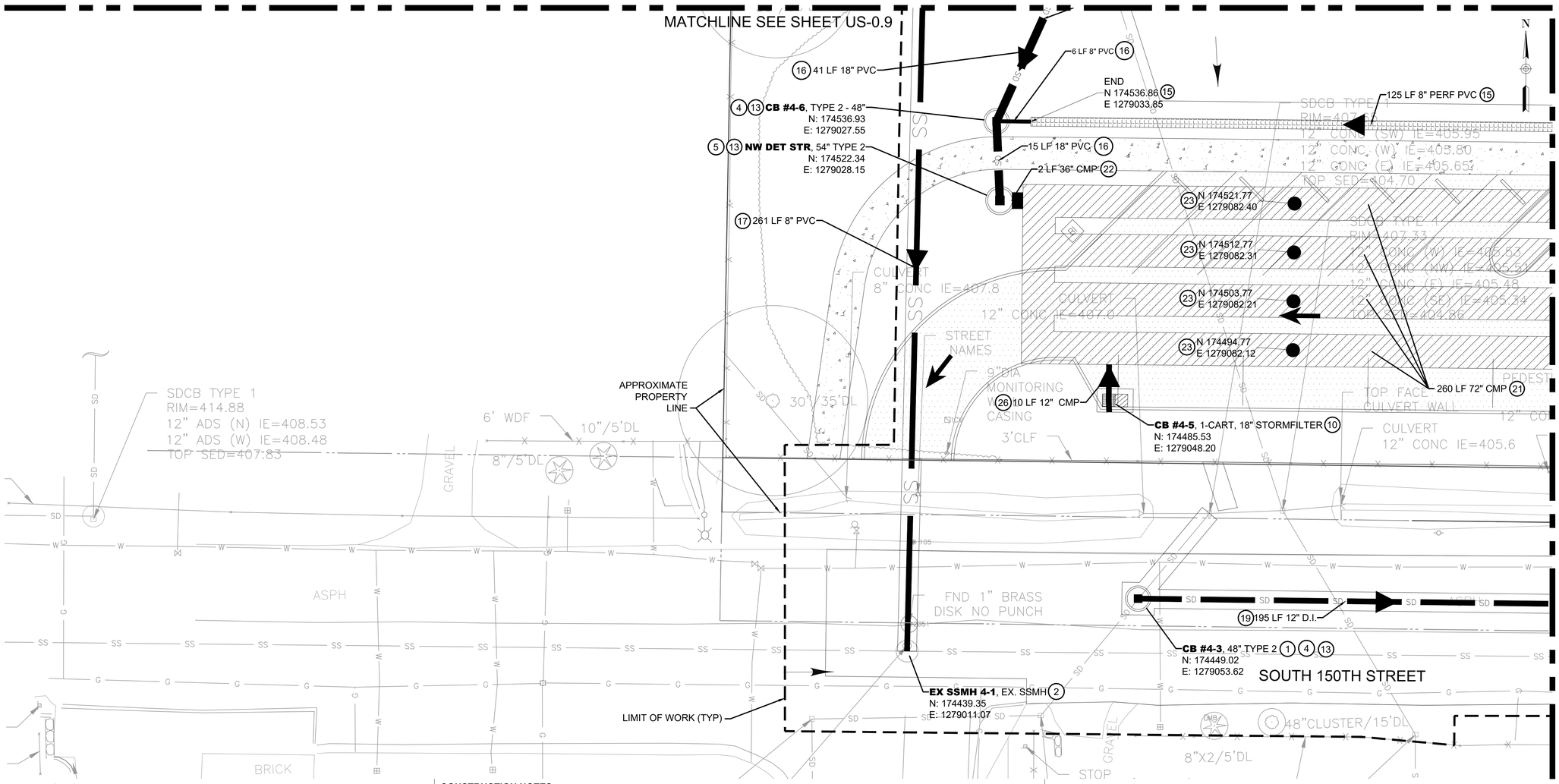
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(206) 973-4755

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UTILITY PLANS

SHEET #
US-0.3



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- 8-INCH STORMWATER CLEAN-OUT (WSDOT STD. PLAN B-85.40-00)
- CONTECH STORMFILTER (SEE DETAILS, SHEETS UD-0.2-UD-0.4)
- UNDERDRAIN SYSTEM POINT OF CONNECTION
- WATER SERVICE METER PER KING COUNTY WATER DISTRICT #125 STD. DTL. 3A
- PIPE FLOW ARROW
- SURFACE FLOW ARROW
- LIMIT OF WORK

0 10' 20' 30'
SCALE IN FEET

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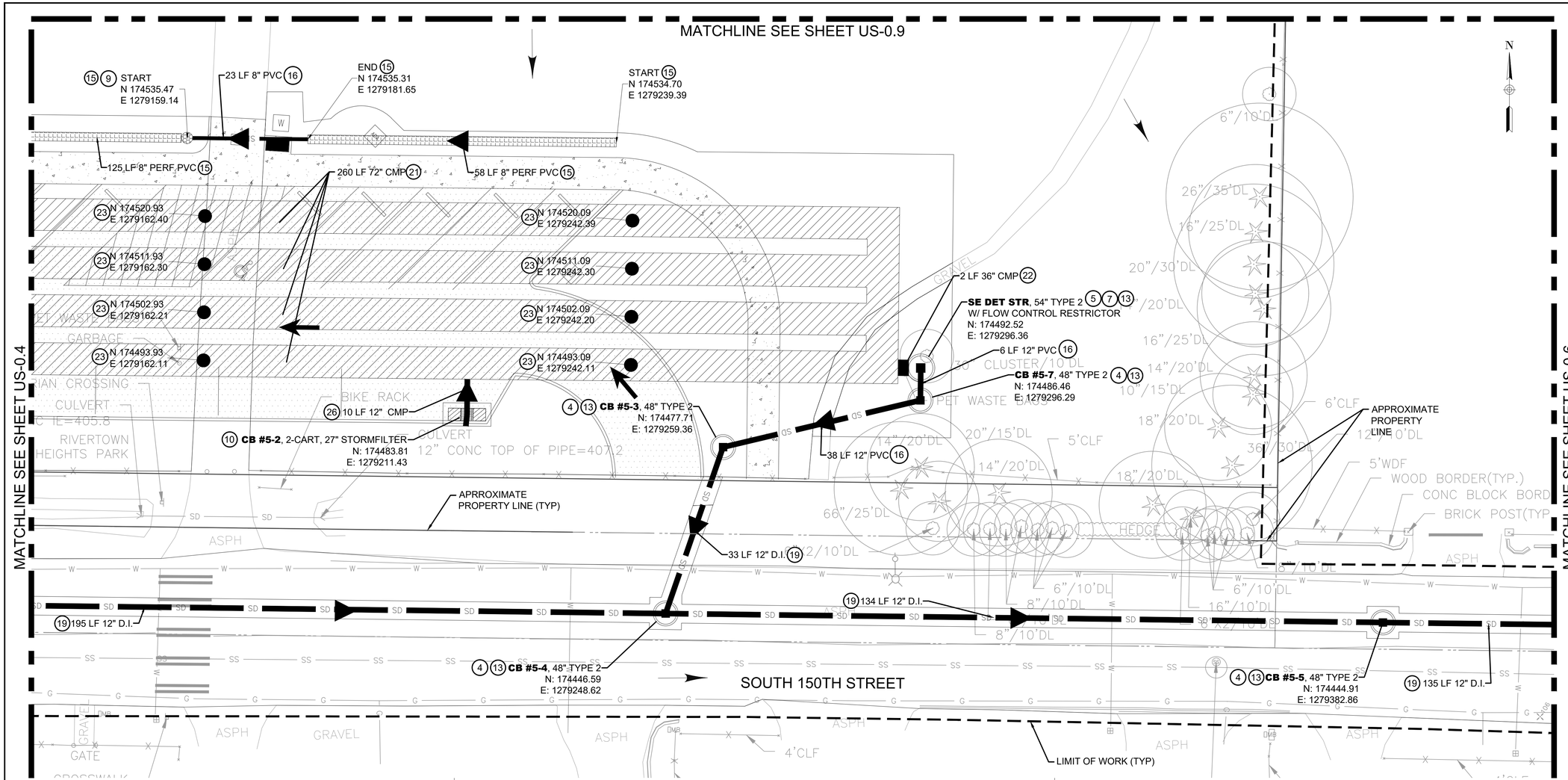
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SHEET NAME
UTILITY PLANS

SHEET #
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UTILITY NOTES

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3. INSTALL CATCH BASIN TYPE 1 PER WSDOT STD. PLAN B-5.20-03
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6. INSTALL MANHOLE TYPE 1 (48") WITH MANHOLE RING AND COVER, PER WSDOT STD. PLAN B-15.20-01
7. INSTALL FLOW RESTRICTOR PER KING COUNTY STD. FIG. 7-027
8. NOT USED
9. INSTALL 8-INCH STORMWATER CLEAN-OUT, PER WSDOT STD. PLAN B-85.40-00
10. INSTALL CONTECH STORMFILTER, SEE PLANS/PROFILES FOR SIZE/LAYOUT. SEE UTILITY DETAILS FOR STRUCTURE INFO.
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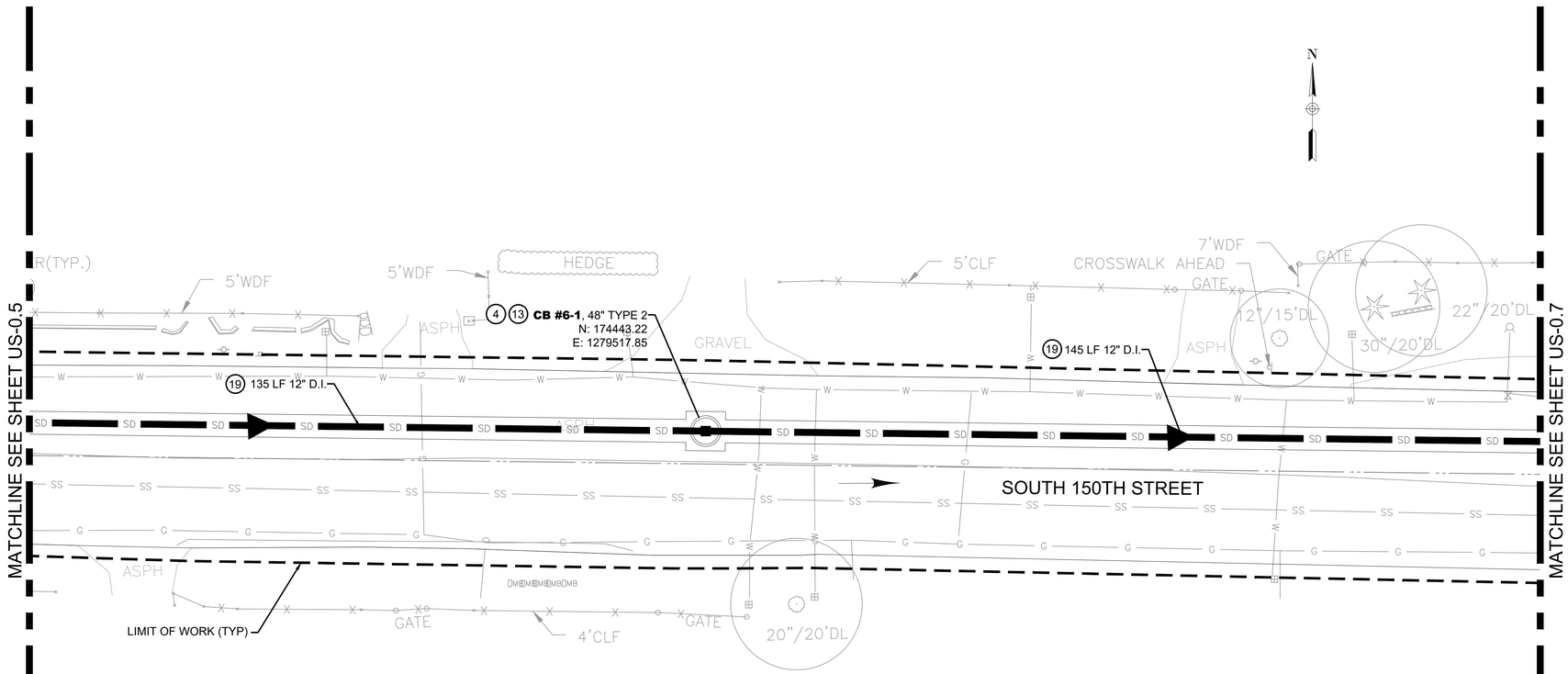
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UTILITY PLANS

SHEET #
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0 10' 20' 30'
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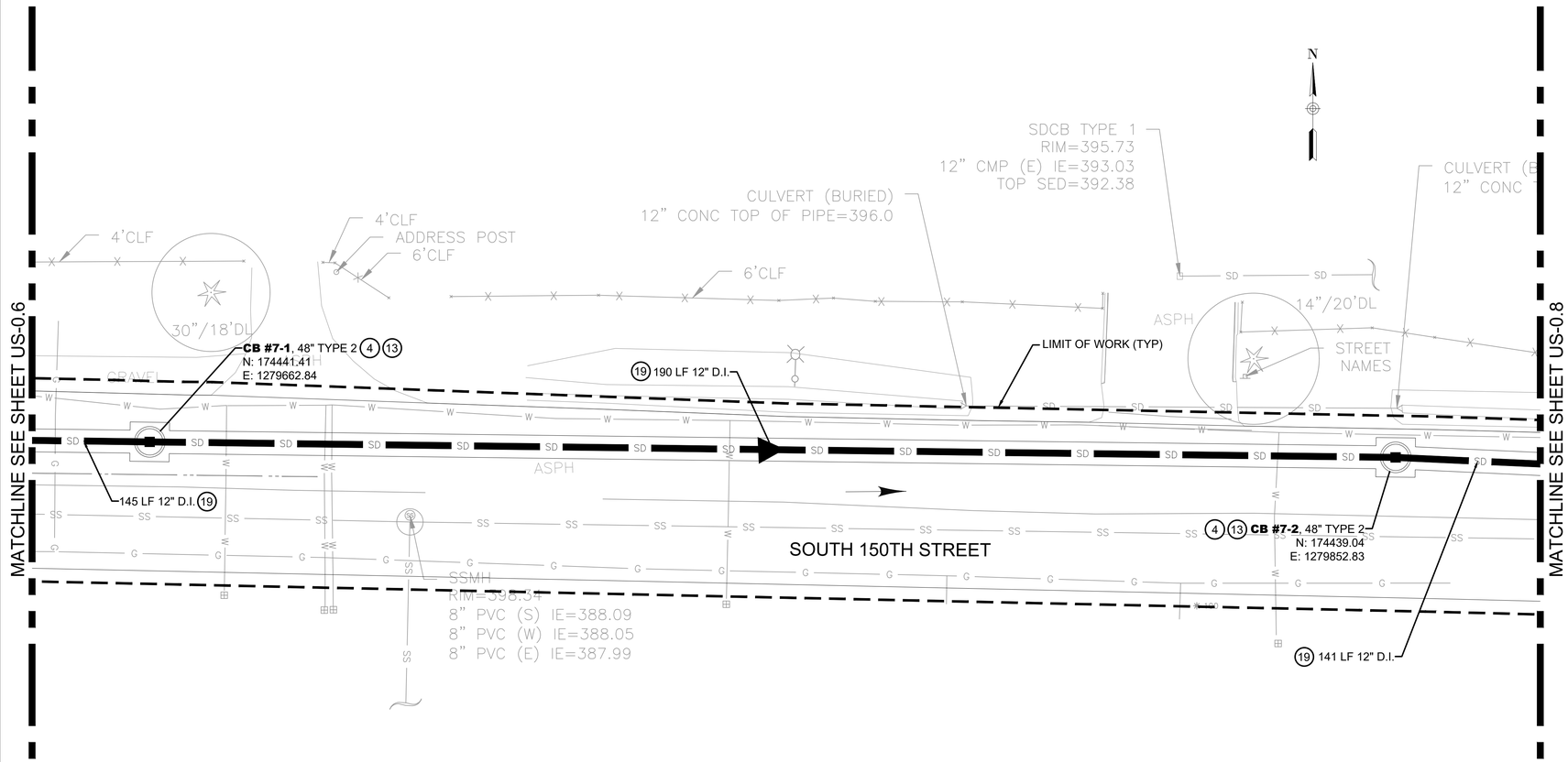
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UTILITY PLANS

SHEET #
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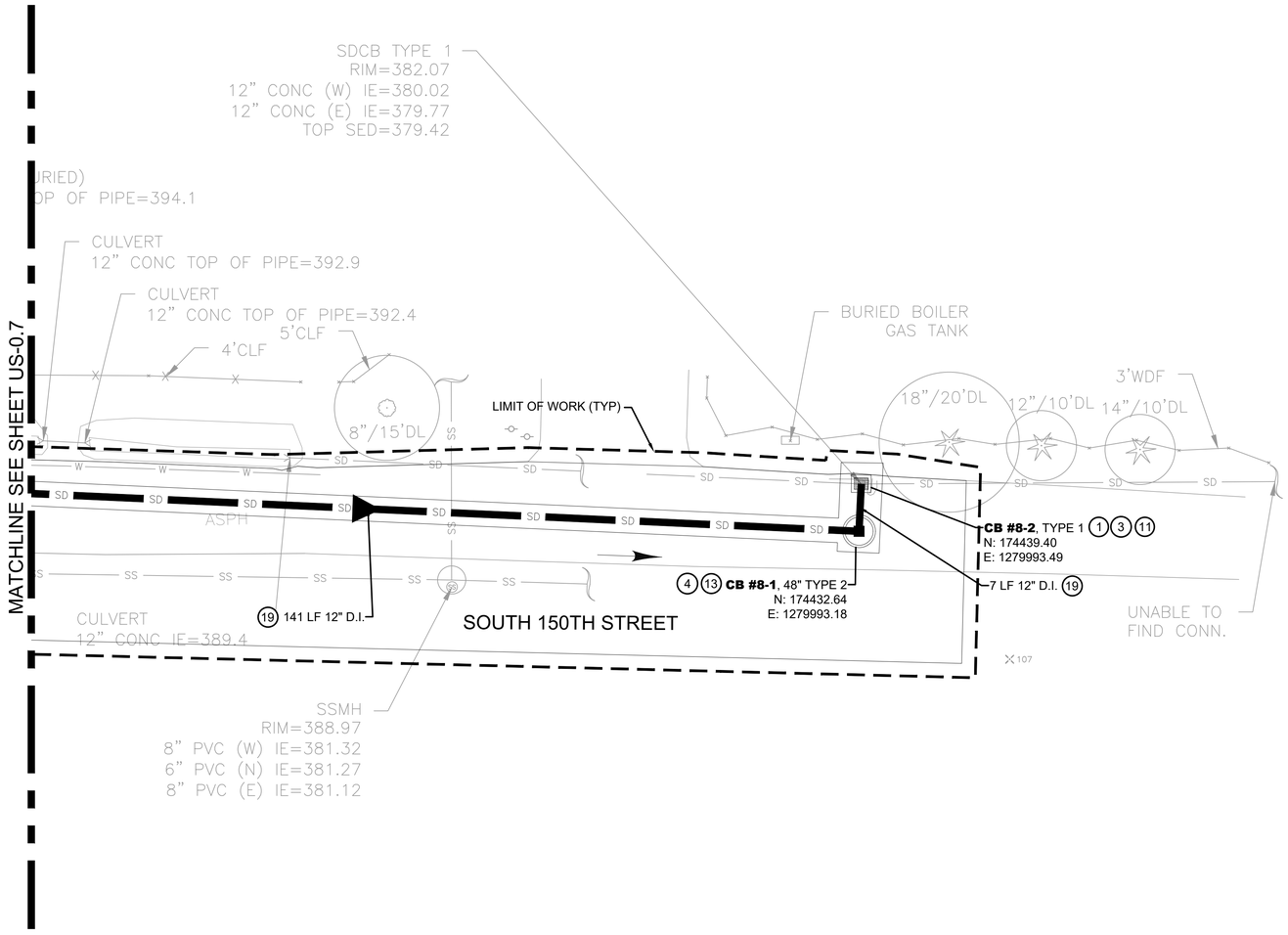
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(14) INSTALL SOLID CIRCULAR FRAME AND CIRCULAR GRATE FOR CATCH BASIN, PER WSDOT STD. PLAN B-30.70-04, B-30.80-01
(15) INSTALL PERFORATED PVC AREA UNDERDRAIN. SEE PLANS/PROFILES FOR SIZE/SLOPE.
(16) INSTALL PVC STORM DRAIN PIPE. SEE PLANS/PROFILES FOR SIZE/SLOPE.
(17) INSTALL SANITARY SEWER PIPE. SEE PLANS/PROFILES FOR MATERIAL/SIZE/SLOPE.
(18) NOT USED
(19) INSTALL DUCTILE IRON STORM DRAIN PIPE. SEE PLANS/PROFILES FOR SIZE/SLOPE.
(20) INSTALL 8-INCH DIAM. PERFORATED PVC UNDERDRAIN FOR SYNTHETIC TURF SURFACING, SEE DETAIL 6, SHEET L5.6
(21) INSTALL CORRUGATED METAL PIPE (CMP) FOR DETENTION FACILITY. SEE PLANS/PROFILES FOR SIZE/SLOPE.
(22) INSTALL 36" CORRUGATED METAL PIPE (CMP) CONNECTION TO FLOW CONTROL STRUCTURE, PER KCSWDM FIGURE 5.1.2.A
(23) INSTALL ACCESS RISER, PER KCSWDM FIGURE 5.1.2.A-B
(24) UNDERDRAIN SYSTEM POINT OF CONNECTION
(25) 3" WATER LINE BEND (22.5 DEGREE BEND)
(26) INSTALL CORRUGATED METAL PIPE CONNECTION TO DETENTION FACILITY. SEE PLANS/PROFILES FOR SIZE/SLOPE.

UTILITY LEGEND

- STORM SEWER PIPE (SEE PLANS AND PROFILES FOR DIMENSIONS AND MATERIAL
- SANITARY SEWER PIPE (SEE PLANS AND PROFILES FOR DIMENSIONS AND MATER
- WATER SERVICE CONNECTION
- PVC AREA UNDERDRAIN (SEE DETAIL 1, SHEET UD-0.1)
- CATCH BASIN TYPE 1 (PER WSDOT STD. PLAN B-5.20-03)
- CATCH BASIN TYPE 2 (PER WSDOT STD. PLAN B-10.20-03)
- MANHOLE TYPE 1 (PER WSDOT STD. PLAN B-15.20-01)
- 8-INCH STORMWATER CLEAN-OUT (WSDOT STD. PLAN B-85.40-00)
- CONTECH STORMFILTER (SEE DETAILS, SHEETS UD-0.2-UD-0.4)
- UNDERDRAIN SYSTEM POINT OF CONNECTION
- WATER SERVICE METER PER KING COUNTY WATER DISTRICT #125 STD. DTL. 3A
- PIPE FLOW ARROW
- SURFACE FLOW ARROW
- LIMIT OF WORK

0 10' 20' 30'
SCALE IN FEET

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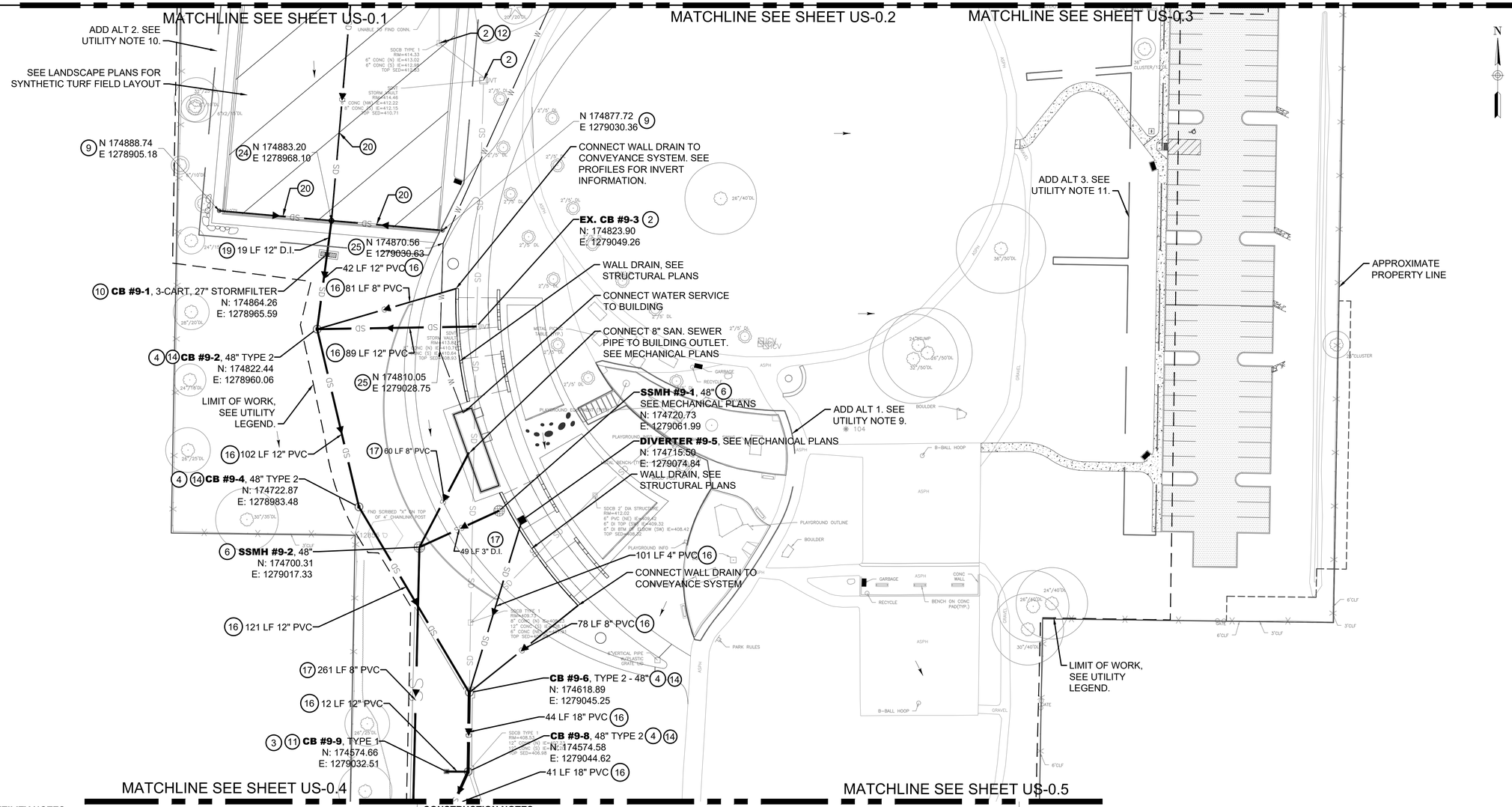
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SHEET NAME
UTILITY PLANS

SHEET #
US-0.8



UTILITY NOTES

1. NO PART OF THE DRAINAGE SYSTEM OR SANITARY SEWER SYSTEM SHALL BE COVERED, CONCEALED, OR PUT INTO USE UNTIL IT HAS BEEN INSPECTED, TESTED, AND ACCEPTED BY THE CITY OF SEATAC.
2. ALL WORK AND MATERIAL SHALL CONFORM TO THE KING COUNTY ROAD DESIGN AND CONSTRUCTION STANDARDS, THE WSDOT/APWA STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION (2027).
3. APPROXIMATE LOCATIONS OF EXISTING UTILITIES HAVE BEEN OBTAINED FROM AVAILABLE RECORDS AND ARE SHOWN FOR CONVENIENCE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF LOCATIONS AND TO AVOID DAMAGE TO ANY ADDITIONAL UTILITIES SHOWN. IF CONFLICTS WITH EXISTING UTILITIES ARISE DURING CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE PUBLIC WORKS INSPECTOR AND ANY CHANGES REQUIRED SHALL BE APPROVED BY THE CITY ENGINEER PRIOR TO COMMENCEMENT OF RELATED CONSTRUCTION ON THE PROJECT.
4. ALL STORM SYSTEMS AND SANITARY SEWER SYSTEMS WITHIN THE PUBLIC RIGHT-OF-WAY OR IN EASEMENTS MUST BE STAKED BY SURVEY FOR LINE AND GRADE PRIOR TO STARTING CONSTRUCTION.
5. STORMWATER DESIGN SHALL FOLLOW CITY ADOPTED STORMWATER MANAGEMENT MANUAL, POLICIES AND CRITERIA SET FORTH IN THE SEATAC MUNICIPAL CODE (SMC).
6. CONTRACTOR SHALL POTHOLE UTILITIES IN VICINITY OF PROPOSED STORM AND SANITARY SYSTEM WITH APPROXIMATE LOCATIONS PRIOR TO INSTALLATION.
7. FOR UTILITY PROFILES, SEE SHEETS UP-0.1 - UP-0.5.
8. FOR UTILITY DETAILS, SEE SHEETS UD-0.1 - UD-0.9.
9. ADD ALT 1. SEE SITE PREPARATION NOTE 7 ON SHEETS CD-0.1-CD-0.9.
10. ADD ALT 2. SEE SITE PREPARATION NOTE 8 ON SHEETS CD-0.1-CD-0.9.
11. ADD ALT 3. SEE SITE PREPARATION NOTE 9 ON SHEETS CD-0.1-CD-0.9.

CONSTRUCTION NOTES

1. INSTALL STRUCTURE OVER EXISTING PIPE
2. ADJUST EXISTING STRUCTURE TO FINISHED GRADE
3. INSTALL CATCH BASIN TYPE 1 PER WSDOT STD. PLAN B-5.20-03
4. INSTALL CATCH BASIN TYPE 2 (48"), PER WSDOT STD. PLAN B-10.20-03
5. INSTALL CATCH BASIN TYPE 2 (54"), PER WSDOT STD. PLAN B-10.20-03
6. INSTALL MANHOLE TYPE 1 (48") WITH MANHOLE RING AND COVER, PER WSDOT STD. PLAN B-15.20-01
7. INSTALL FLOW RESTRICTOR PER KING COUNTY STD. FIG. 7-027
8. NOT USED
9. INSTALL 8-INCH STORMWATER CLEAN-OUT, PER WSDOT STD. PLAN B-85.40-00
10. INSTALL CONTECH STORMFILTER, SEE PLANS/PROFILES FOR SIZE/LAYOUT. SEE UTILITY DETAILS FOR STRUCTURE INFO.
11. INSTALL RECTANGULAR FRAME AND VANED GRATE FOR CATCH BASIN PER WSDOT STD. PLANS B-30.10-03, B-30.30-03
12. INSTALL RECTANGULAR FRAME AND SOLID METAL COVER FOR CATCH BASIN PER WSDOT STD. PLANS B-30.10-03, B-30.20-04
13. INSTALL SOLID CIRCULAR FRAME AND COVER FOR CATCH BASIN, PER WSDOT STD. PLAN B-30.70-04
14. INSTALL SOLID CIRCULAR FRAME AND CIRCULAR GRATE FOR CATCH BASIN, PER WSDOT STD. PLAN B-30.70-04, B-30.80-01
15. INSTALL PERFORATED PVC AREA UNDERDRAIN. SEE PLANS/PROFILES FOR SIZE/SLOPE.
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- PIPE FLOW ARROW
- SURFACE FLOW ARROW
- LIMIT OF WORK

0 30' 60' 90'
SCALE IN FEET

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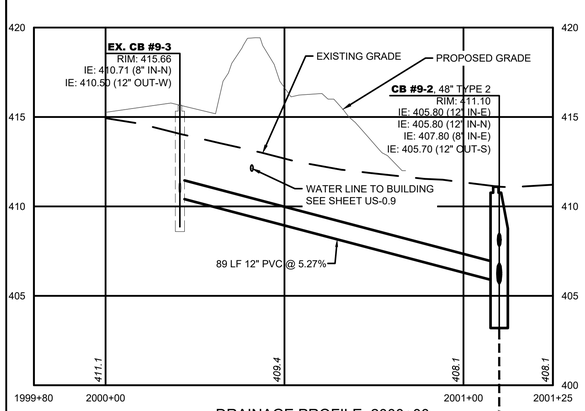
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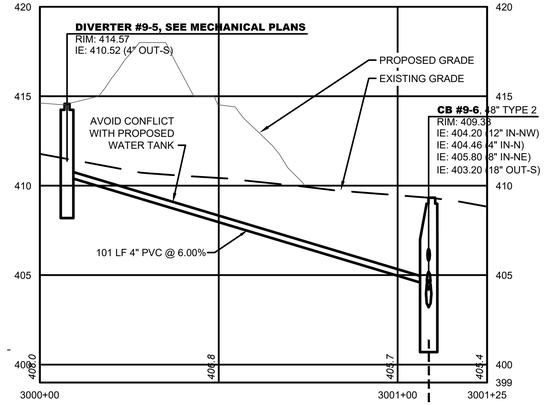
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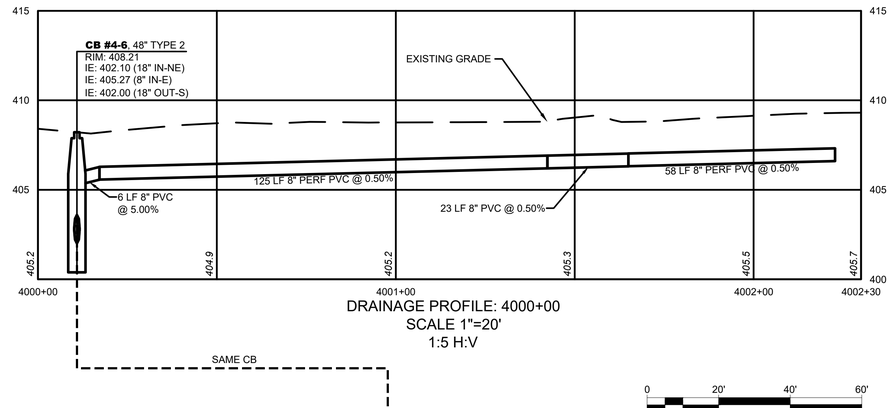
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US-0.9



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DRAINAGE PROFILE: 3000+00
SCALE 1"=20'
1:5 H:V



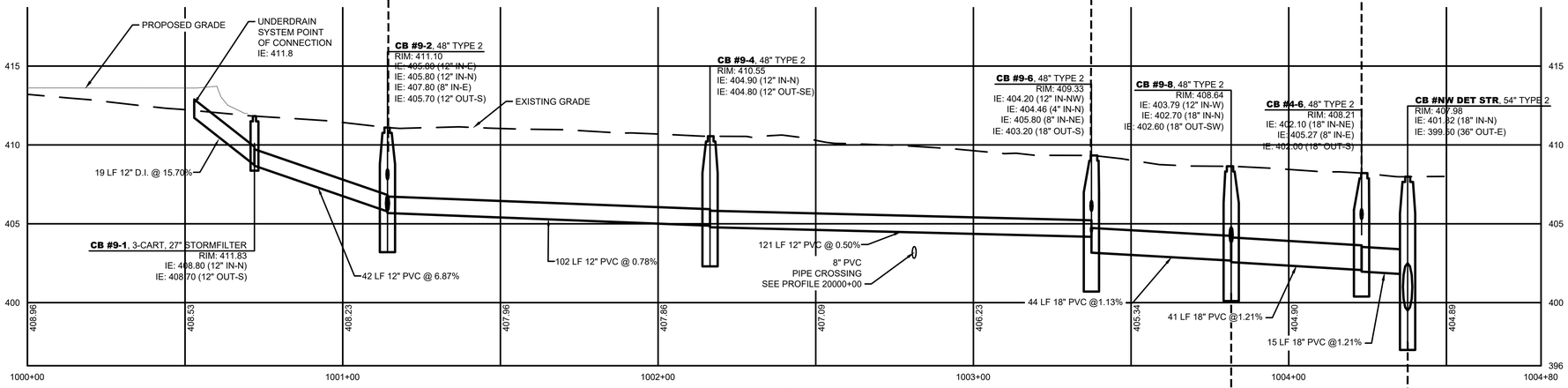
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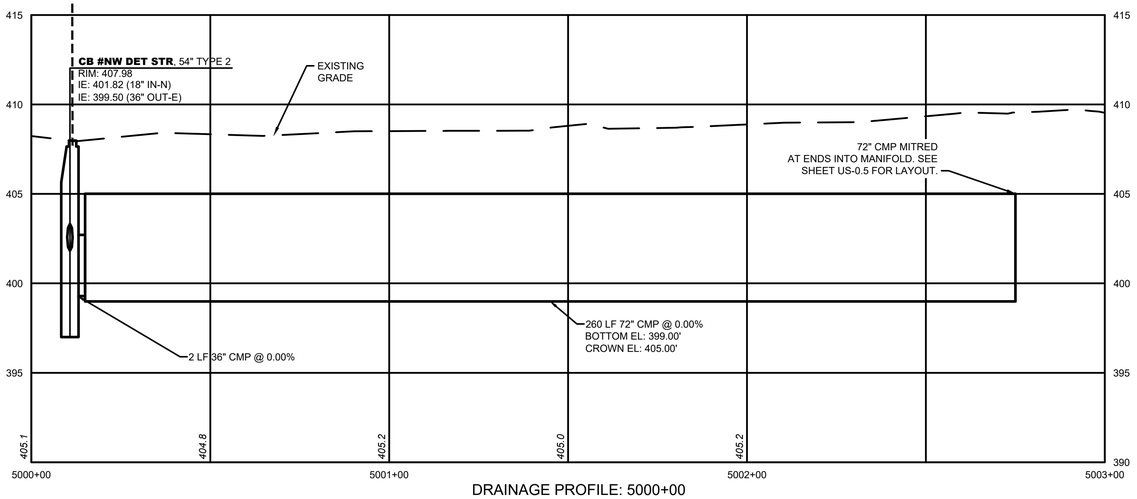
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SAME CB

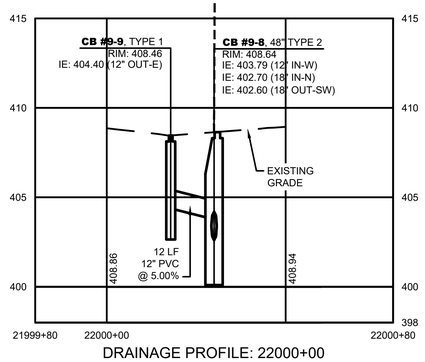
0 20' 40' 60'
SCALE IN FEET



DRAINAGE PROFILE: 1000+00
SCALE 1"=20'
1:5 H:V



DRAINAGE PROFILE: 5000+00
SCALE 1"=20'
1:5 H:V



DRAINAGE PROFILE: 22000+00
SCALE 1"=20'
1:5 H:V

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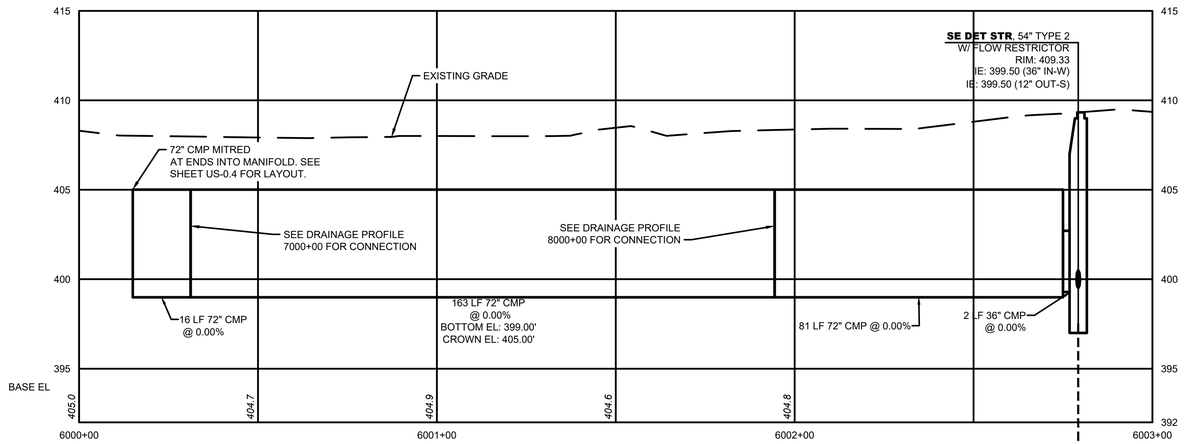
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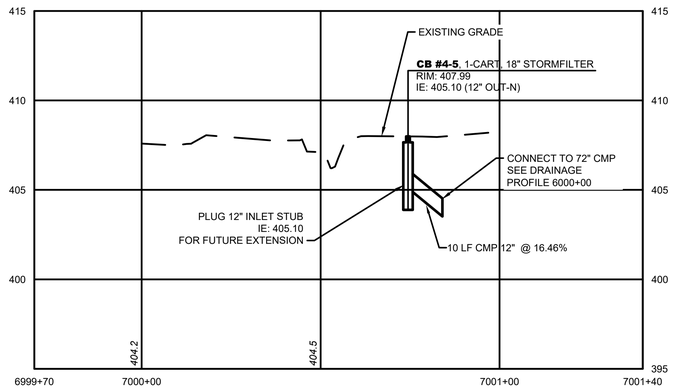
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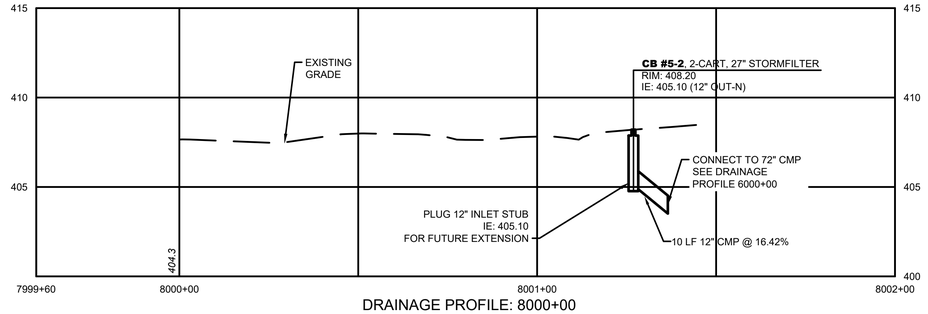
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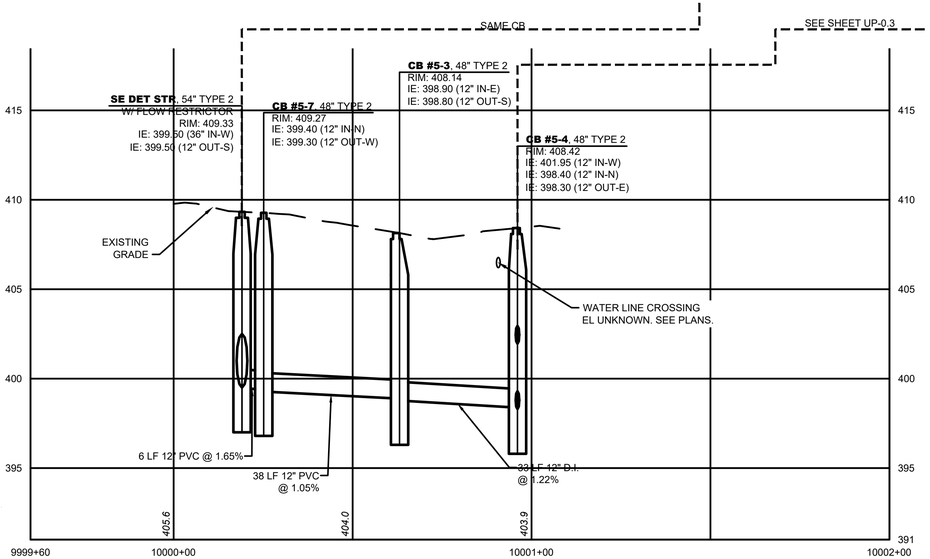
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DRAINAGE PROFILE: 7000+00
SCALE 1"=20'
1:5 H:V



DRAINAGE PROFILE: 8000+00
SCALE 1"=20'
1:5 H:V



DRAINAGE PROFILE: 10000+00
SCALE 1"=20'
1:5 H:V

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0 10' 20' 30'
SCALE IN FEET

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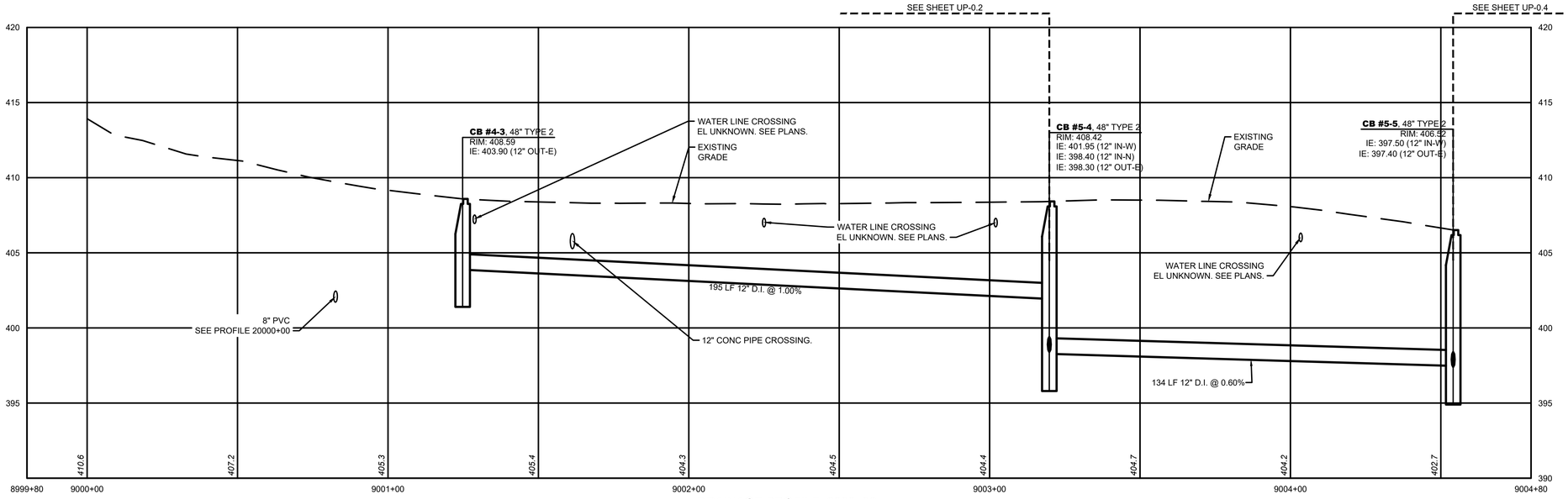
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DRAINAGE PROFILE: 9000+00
SCALE 1"=20'
1:5 H:V

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SCALE IN FEET

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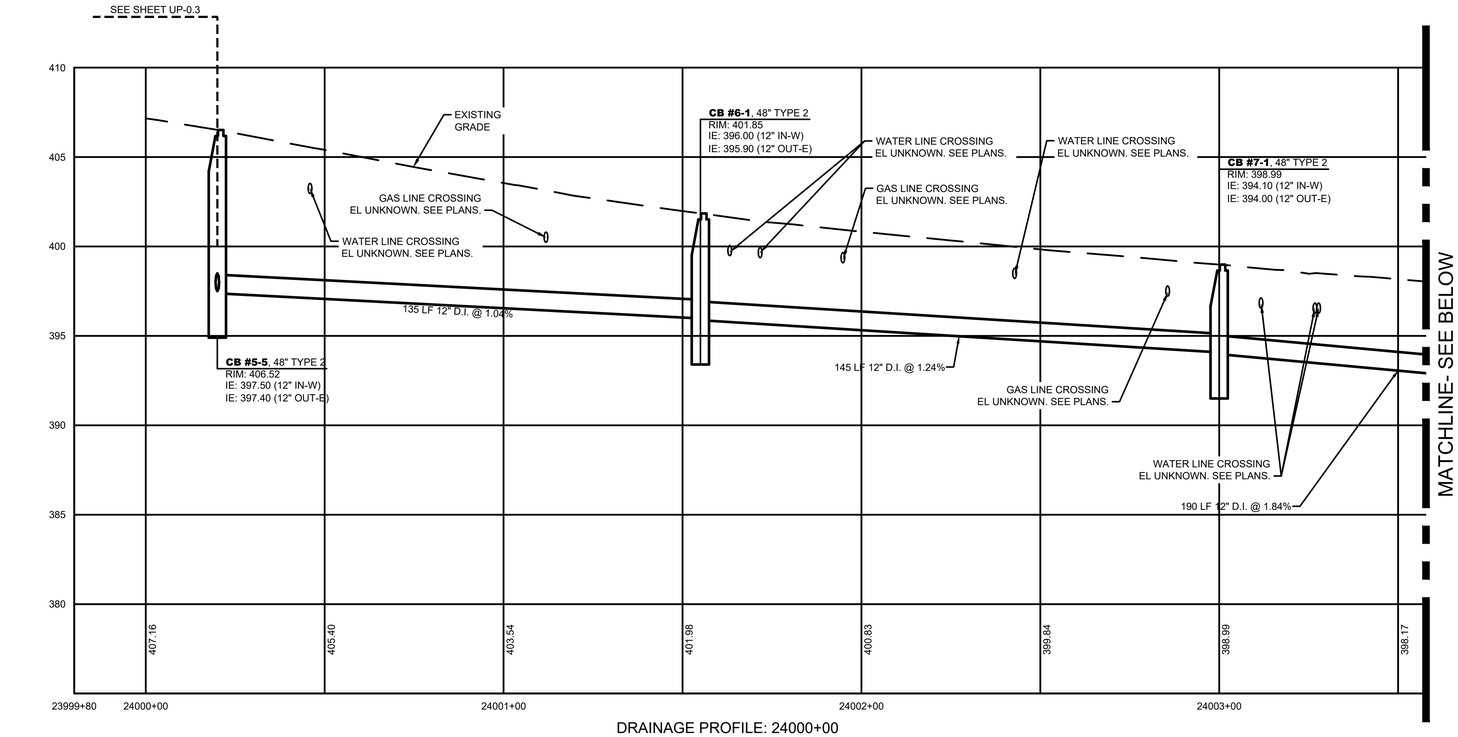
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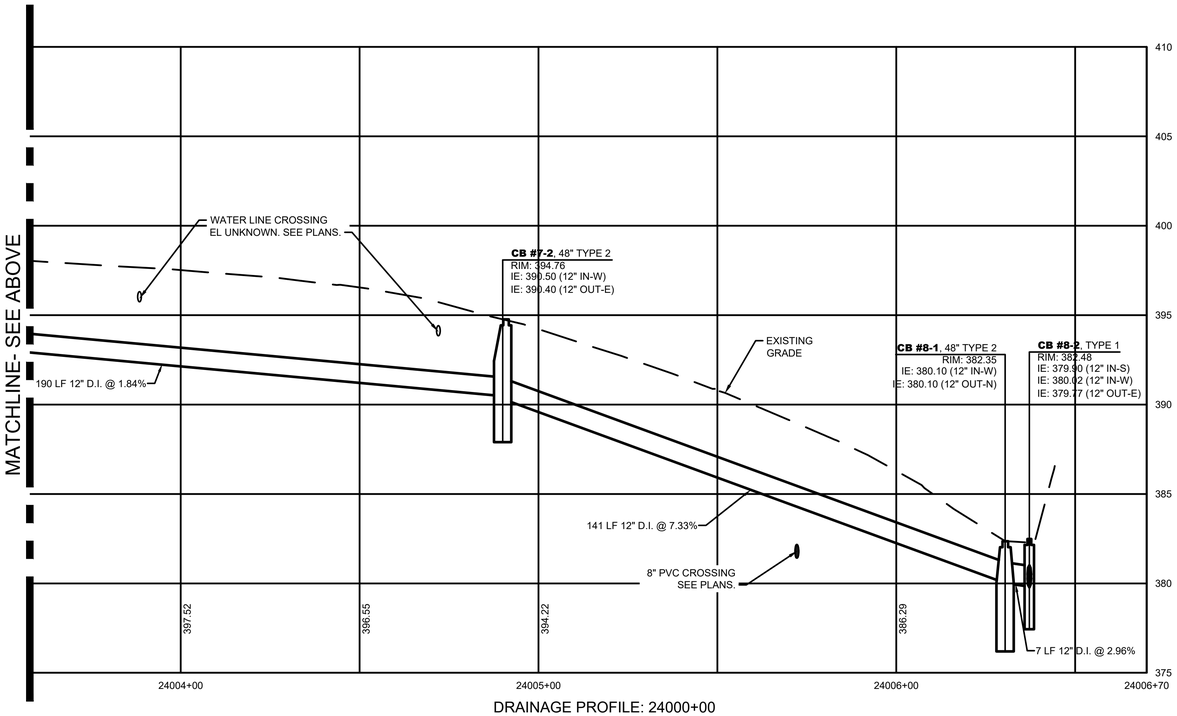
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SHEET #

UP-0.3



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SCALE 1"=20'
1:5 H:V



DRAINAGE PROFILE: 24000+00
SCALE 1"=20'
1:5 H:V

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SCALE IN FEET

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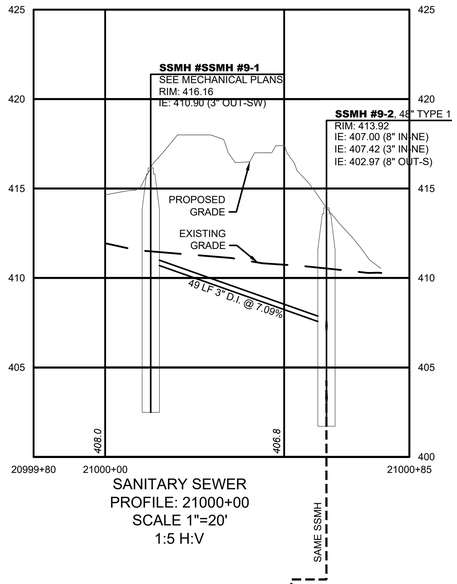
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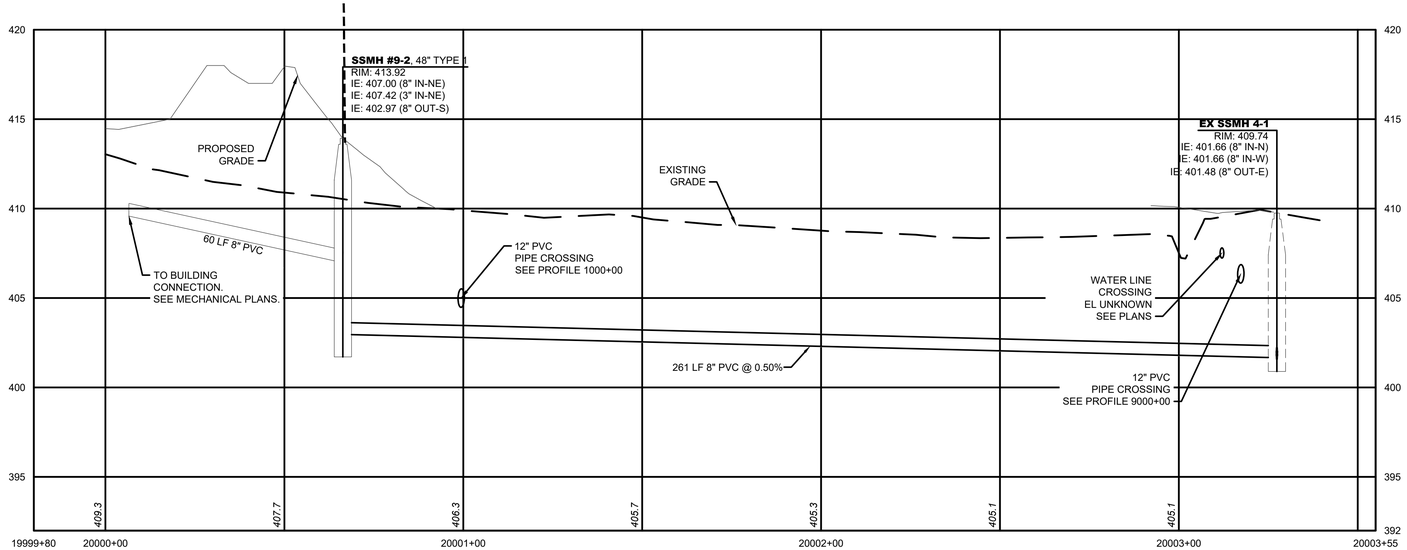
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UP-0.4



SANITARY SEWER
PROFILE: 21000+00
SCALE 1"=20'
1:5 H:V

SAME SSMH



SANITARY SEWER
PROFILE: 20000+00
SCALE 1"=20'
1:5 H:V

0 10' 20' 30'
SCALE IN FEET

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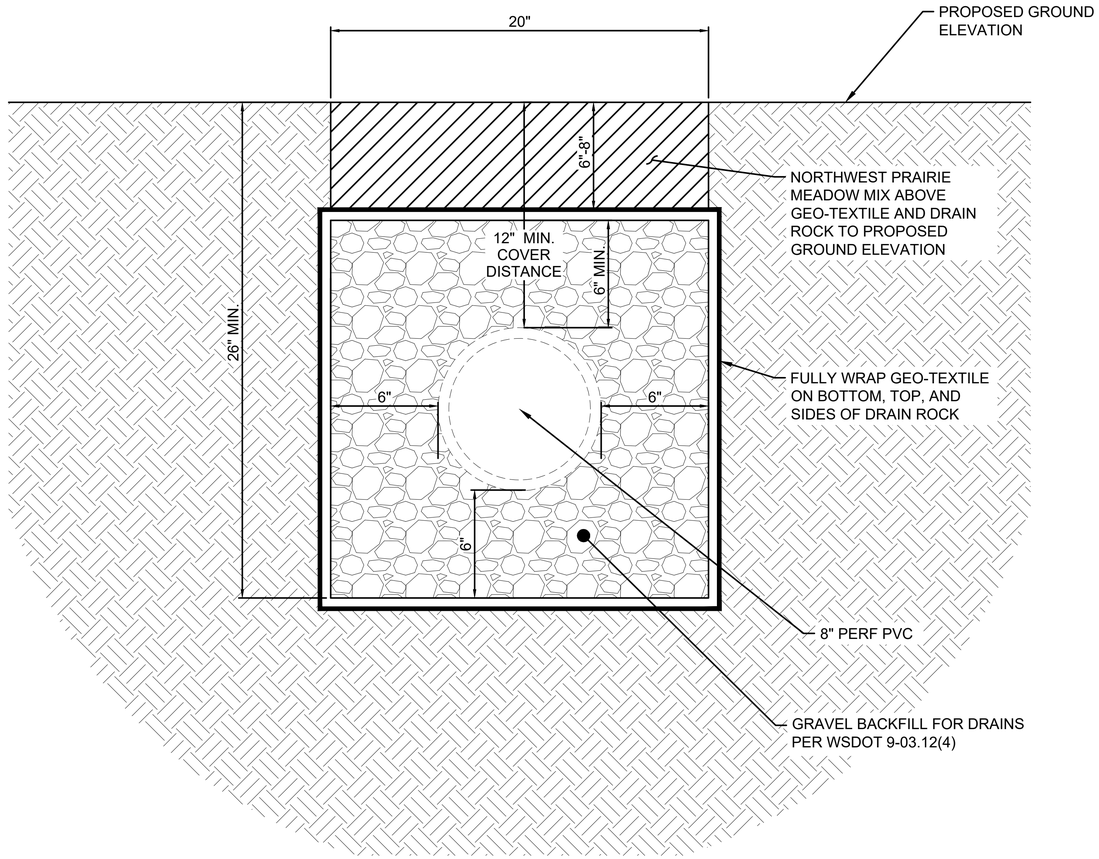
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SHEET NAME

UTILITY PROFILES

SHEET #

UP-0.5



PVC AREA UNDERDRAIN 1

N.T.S.

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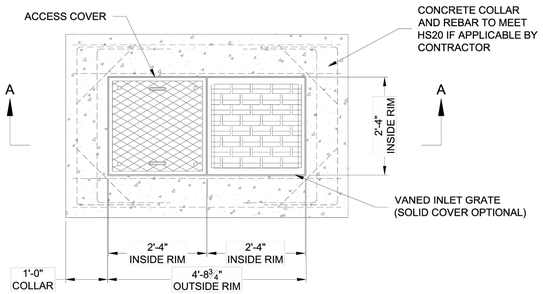
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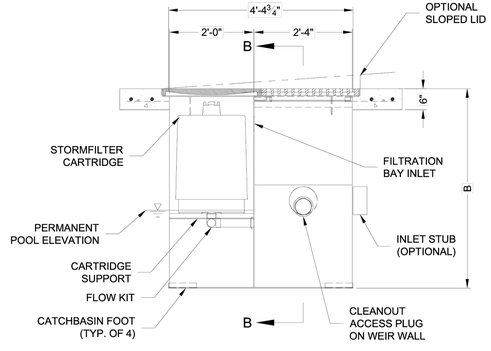
UTILITY DETAILS

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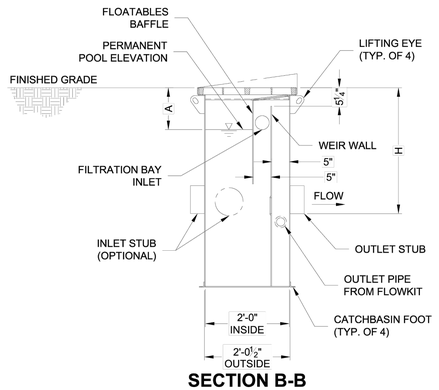
UD-0.1



PLAN VIEW



SECTION A-A



SECTION B-B

STORMFILTER STEEL CATCHBASIN DESIGN NOTES

STORMFILTER TREATMENT CAPACITY IS A FUNCTION OF THE CARTRIDGE SELECTION AND THE NUMBER OF CARTRIDGES. 1 CARTRIDGE CATCHBASIN HAS A MAXIMUM OF ONE CARTRIDGE. SYSTEM IS SHOWN WITH A 27" CARTRIDGE, AND IS ALSO AVAILABLE WITH AN 18" CARTRIDGE. STORMFILTER CATCHBASIN CONFIGURATIONS ARE AVAILABLE WITH A DRY INLET BAY FOR VECTOR CONTROL.
PEAK HYDRAULIC CAPACITY PER TABLE BELOW. IF THE SITE CONDITIONS EXCEED PEAK HYDRAULIC CAPACITY, AN UPSTREAM BYPASS STRUCTURE IS REQUIRED.

CARTRIDGE SELECTION

CARTRIDGE HEIGHT	27"			18"			18" DEEP		
RECOMMENDED HYDRAULIC DROP (H)	3.05'			2.3'			3.3'		
SPECIFIC FLOW RATE (gpm/sf)	2 gpm/sf	1.67* gpm/sf	1 gpm/sf	2 gpm/sf	1.67* gpm/sf	1 gpm/sf	2 gpm/sf	1.67* gpm/sf	1 gpm/sf
CARTRIDGE FLOW RATE (gpm)	22.5	18.79	11.25	15	12.53	7.5	15	12.53	7.5
PEAK HYDRAULIC CAPACITY	1.0			1.0			1.8		
INLET PERMANENT POOL LEVEL (A)	1'-0"			1'-0"			2'-0"		
OVERALL STRUCTURE HEIGHT (B)	4'-9"			3'-9"			4'-9"		

* 1.67 gpm/sf SPECIFIC FLOW RATE IS APPROVED WITH PHOSPHOSORB® (PSORB) MEDIA ONLY

GENERAL NOTES
1. CONTECH TO PROVIDE ALL MATERIALS UNLESS NOTED OTHERWISE.
2. FOR SITE SPECIFIC DRAWINGS WITH DETAILED STORMFILTER CATCHBASIN STRUCTURE DIMENSIONS AND WEIGHTS, PLEASE CONTACT YOUR CONTECH ENGINEERED SOLUTIONS LLC REPRESENTATIVE. www.contechES.com
3. STORMFILTER CATCHBASIN WATER QUALITY STRUCTURE SHALL BE IN ACCORDANCE WITH ALL DESIGN DATA AND INFORMATION CONTAINED IN THIS DRAWING.
4. INLET SHOULD NOT BE LOWER THAN OUTLET. INLET (IF APPLICABLE) AND OUTLET PIPING TO BE SPECIFIED BY ENGINEER AND PROVIDED BY CONTRACTOR.
5. MANUFACTURER TO APPLY A SURFACE BEAD WELD IN THE SHAPE OF THE LETTER "O" ABOVE THE OUTLET PIPE STUB ON THE EXTERIOR SURFACE OF THE STEEL SFCB.
6. STORMFILTER CATCHBASIN EQUIPPED WITH 4 INCH (APPROXIMATE) LONG STUBS FOR INLET (IF APPLICABLE) AND OUTLET PIPING. STANDARD OUTLET STUB IS 8 INCHES IN DIAMETER. MAXIMUM OUTLET STUB IS 15 INCHES IN DIAMETER. CONNECTION TO COLLECTION PIPING CAN BE MADE USING FLEXIBLE COUPLING BY CONTRACTOR.
7. STEEL STRUCTURE TO BE MANUFACTURED OF 1/4 INCH STEEL PLATE. CASTINGS SHALL MEET AASHTO M306 LOAD RATING. TO MEET HS20 LOAD RATING ON STRUCTURE, A CONCRETE COLLAR IS REQUIRED. WHEN REQUIRED, CONCRETE COLLAR WITH #4 REINFORCING BARS TO BE PROVIDED BY CONTRACTOR.
8. FILTER CARTRIDGES SHALL BE MEDIA-FILLED, PASSIVE, SIPHON ACTUATED, RADIAL FLOW, AND SELF CLEANING. RADIAL MEDIA DEPTH SHALL BE 7-INCHES. FILTER MEDIA CONTACT TIME SHALL BE AT LEAST 38 SECONDS.
9. SPECIFIC FLOW RATE IS EQUAL TO THE FILTER TREATMENT CAPACITY (gpm) DIVIDED BY THE FILTER CONTACT SURFACE AREA (sq ft).

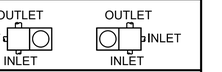
INSTALLATION NOTES
A. ANY SUB-BASE, BACKFILL DEPTH, AND/OR ANTI-FLOTATION PROVISIONS ARE SITE-SPECIFIC DESIGN CONSIDERATIONS AND SHALL BE SPECIFIED BY ENGINEER OF RECORD.
B. CONTRACTOR TO PROVIDE EQUIPMENT WITH SUFFICIENT LIFTING AND REACH CAPACITY TO LIFT AND SET THE CATCHBASIN (LIFTING CLUTCHES PROVIDED).
C. CONTRACTOR TO TAKE APPROPRIATE MEASURES TO PROTECT CARTRIDGES FROM CONSTRUCTION-RELATED EROSION RUNOFF.

1-CARTRIDGE CATCHBASIN STORMFILTER DATA

STRUCTURE ID	CB 4-5
WATER QUALITY FLOW RATE (cfs)	0.0145
PEAK FLOW RATE (<1 cfs)	0.1328
RETURN PERIOD OF PEAK FLOW (yrs)	100
CARTRIDGE HEIGHT (27", 18", 18" DEEP)	18"
CARTRIDGE FLOW RATE (gpm)	7.5
MEDIA TYPE (PERLITE, ZPG, PSORB)	ZPG
RIM ELEVATION	407.99

PIPE DATA:	I.E.	DIAMETER
INLET STUB	405.10	12"
OUTLET STUB	405.10	12"

CONFIGURATION



SLOPED LID	YES\NO
SOLID COVER	YES\NO

NOTES/SPECIAL REQUIREMENTS:

The Stormwater Management StormFilter®
THIS PRODUCT MAY BE PROTECTED BY ONE OR MORE OF THE FOLLOWING U.S. PATENTS: 5,322,629; 5,707,517; 5,782,574; 6,027,639; 6,649,048; AND RELATED FOREIGN PATENTS. OR OTHER PATENTS PENDING.

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1 CARTRIDGE CATCHBASIN
STORMFILTER
STANDARD DETAIL

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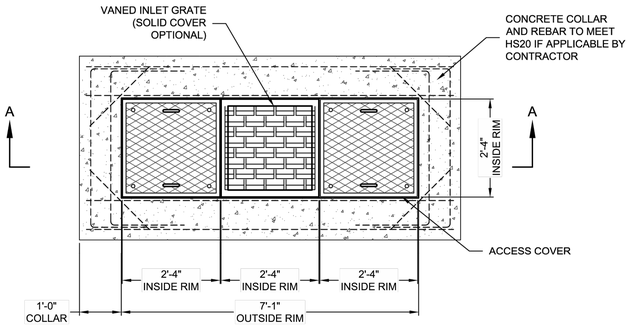
CONTACT:
CLYNN WILKINSON
CWILKINSON@SEATAC.GOV
(206) 973-4755

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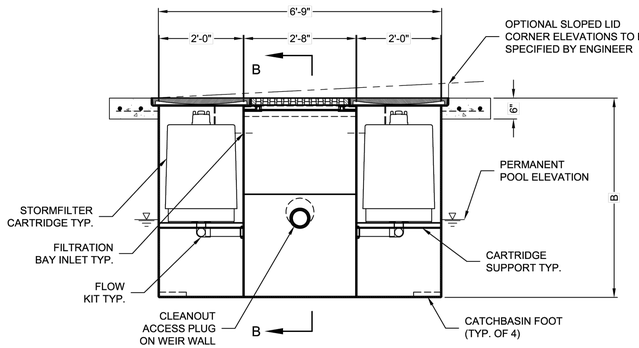
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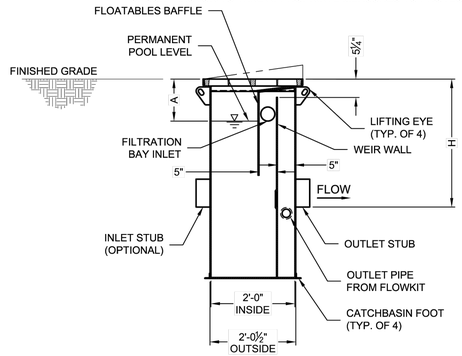
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PLAN VIEW



SECTION A-A



SECTION B-B

STORMFILTER STEEL CATCHBASIN DESIGN NOTES

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CARTRIDGE SELECTION

CARTRIDGE HEIGHT		27"			18"			18" DEEP		
RECOMMENDED HYDRAULIC DROP (H)		3.05'			2.3'			3.3'		
SPECIFIC FLOW RATE (gpm/sf)	2 gpm/sf	1.67* gpm/sf	1 gpm/sf	2 gpm/sf	1.67* gpm/sf	1 gpm/sf	2 gpm/sf	1.67* gpm/sf	1 gpm/sf
CARTRIDGE FLOW RATE (gpm)	22.5	18.79	11.25	15	12.53	7.5	15	12.53	7.5
PEAK HYDRAULIC CAPACITY		1.0			1.0			1.8	
INLET PERMANENT POOL LEVEL (A)		1'-0"			1'-0"			2'-0"	
OVERALL STRUCTURE HEIGHT (B)		4'-9"			3'-9"			4'-9"	

* 1.67 gpm/sf SPECIFIC FLOW RATE IS APPROVED WITH PHOSPHOSORB® (PSORB) MEDIA ONLY

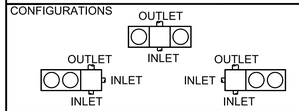
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2-CARTRIDGE DEEP CATCHBASIN STORMFILTER DATA

STRUCTURE ID		CB 5-2
WATER QUALITY FLOW RATE (cfs)		0.0422
PEAK FLOW RATE (<1.8 cfs)		0.3593
RETURN PERIOD OF PEAK FLOW (yrs)		100
CARTRIDGE FLOW RATE (gpm)		11.25
MEDIA TYPE (PERLITE, ZPG, PSORB)		ZPG
RIM ELEVATION		408.20
PIPE DATA:	I.E.	DIAMETER
INLET STUB	405.10	12"
OUTLET STUB	405.10	12"

CONFIGURATIONS



SLOPED LID	YES\NO
SOLID COVER	YES\NO
NOTES/SPECIAL REQUIREMENTS:	

The Stormwater Management StormFilter®
THIS PRODUCT MAY BE PROTECTED BY ONE OR MORE OF THE FOLLOWING U.S. PATENTS: 5,322,629; 5,324,070; 5,707,527; 5,885,107; 6,027,639; 6,440,046; RELATED FOREIGN PATENTS; OR OTHER PATENTS PENDING.

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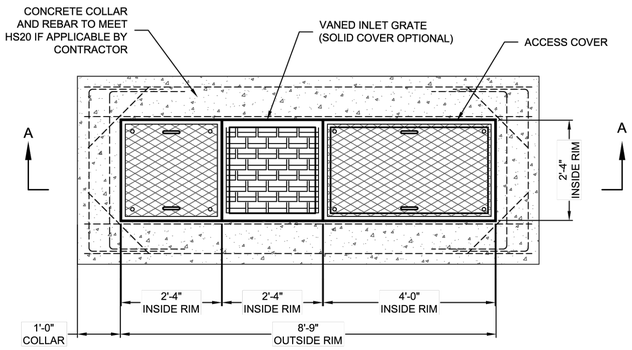
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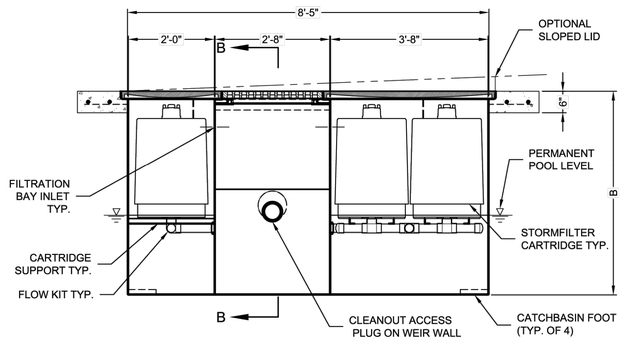
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PLAN VIEW



SECTION A-A

STORMFILTER STEEL CATCHBASIN DESIGN NOTES

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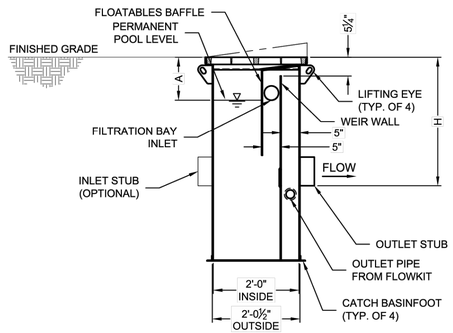
CARTRIDGE SELECTION

CARTRIDGE HEIGHT	27"			18"			18" DEEP		
RECOMMENDED HYDRAULIC DROP (H)	3.05'			2.3'			3.3'		
SPECIFIC FLOW RATE (gpm/sf)	2 gpm/sf	1.67* gpm/sf	1 gpm/sf	2 gpm/sf	1.67* gpm/sf	1 gpm/sf	2 gpm/sf	1.67* gpm/sf	1 gpm/sf
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PEAK HYDRAULIC CAPACITY	1.0			1.0			1.8		
INLET PERMANENT POOL LEVEL (A)	1'-0"			1'-0"			2'-0"		
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SECTION B-B

3-CARTRIDGE CATCHBASIN STORMFILTER DATA

STRUCTURE ID		CB 9-1
WATER QUALITY FLOW RATE (cfs)		0.0533
PEAK FLOW RATE (<1 cfs)		0.4516
RETURN PERIOD OF PEAK FLOW (yrs)		100
CARTRIDGE FLOW RATE (gpm)		11.25
MEDIA TYPE (PERLITE, ZPG, PSORB)		ZPG
RIM ELEVATION		411.83
PIPE DATA:	I.E.	DIAMETER
INLET STUB	408.80	12"
OUTLET STUB	408.70	12"

CONFIGURATION



SLOPED LID	YES\NO
SOLID COVER	YES\NO
NOTES/SPECIAL REQUIREMENTS:	

The Stormwater Management StormFilter®
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3 CARTRIDGE CATCHBASIN
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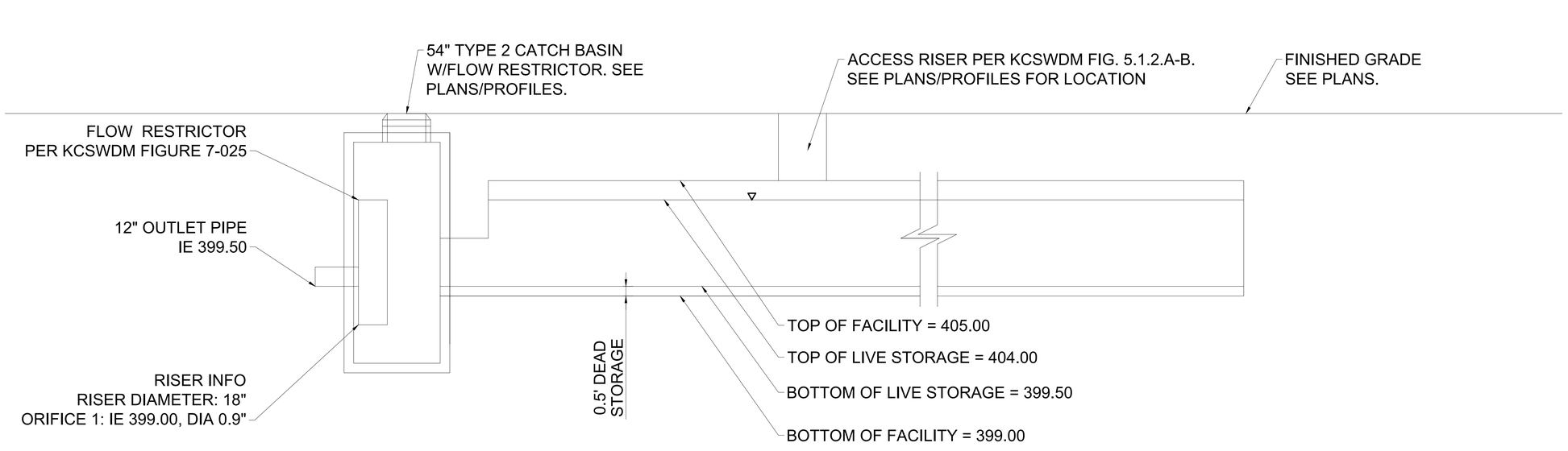
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72 IN DETENTION PIPE ELEVATION VIEW 2

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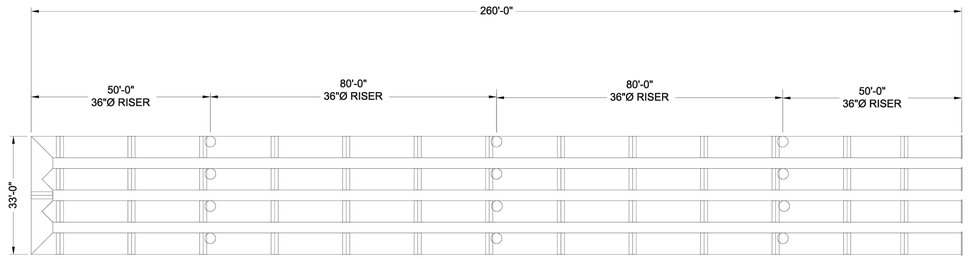
PROJECT SUMMARY

CALCULATION DETAILS
- LOADING = HS20/HS25
- APPROX. LINEAR FOOTAGE = 1,049 LF

STORAGE SUMMARY
- STORAGE VOLUME REQUIRED = N/A
- PIPE STORAGE VOLUME = 29,660 CF
- BACKFILL STORAGE VOLUME = 0 CF
- TOTAL STORAGE PROVIDED = 30,169 CF

PIPE DETAILS
- DIAMETER = 72"
- CORRUGATION = 5x1
- GAGE = 16
- COATING = ALT2
- WALL TYPE = SOLID
- BARREL SPACING = 36"

BACKFILL DETAILS
- WIDTH AT ENDS = 12"
- ABOVE PIPE = 0"
- WIDTH AT SIDES = 12"
- BELOW PIPE = 0"



NOTES

- ALL RISER AND STUB DIMENSIONS ARE TO CENTERLINE. ALL ELEVATIONS, DIMENSIONS, AND LOCATIONS OF RISERS AND INLETS, SHALL BE VERIFIED BY THE ENGINEER OF RECORD PRIOR TO RELEASING FOR FABRICATION.
- ALL FITTINGS AND REINFORCEMENT COMPLY WITH ASTM A998.
- ALL RISERS AND STUBS ARE $2\frac{2}{3}$" x $\frac{1}{2}$" CORRUGATION AND 16 GAGE UNLESS OTHERWISE NOTED.
- RISERS TO BE FIELD TRIMMED TO GRADE.
- QUANTITY OF PIPE SHOWN DOES NOT PROVIDE EXTRA PIPE FOR CONNECTING THE SYSTEM TO EXISTING PIPE OR DRAINAGE STRUCTURES. OUR SYSTEM AS DETAILED PROVIDES NOMINAL INLET AND/OR OUTLET PIPE STUB FOR CONNECTION TO EXISTING DRAINAGE FACILITIES. IF ADDITIONAL PIPE IS NEEDED IT IS THE RESPONSIBILITY OF THE CONTRACTOR.
- BAND TYPE TO BE DETERMINED UPON FINAL DESIGN.
- THE PROJECT SUMMARY IS REFLECTIVE OF THE DYODS DESIGN, QUANTITIES ARE APPROX. AND SHOULD BE VERIFIED UPON FINAL DESIGN AND APPROVAL. FOR EXAMPLE, TOTAL EXCAVATION DOES NOT CONSIDER ALL VARIABLES SUCH AS SHORING AND ONLY ACCOUNTS FOR MATERIAL WITHIN THE ESTIMATED EXCAVATION FOOTPRINT.
- THESE DRAWINGS ARE FOR CONCEPTUAL PURPOSES AND DO NOT REFLECT ANY LOCAL PREFERENCES OR REGULATIONS. PLEASE CONTACT YOUR LOCAL CONTECH REP FOR MODIFICATIONS.

ASSEMBLY
SCALE: 1" = 30'

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DYO72846 Riverton Heights Park
CMP, Facility 2
Seattle, WA
DETENTION SYSTEM

PROJECT No.:	SEQ. No.:	DATE:
52395	72846	10/14/2026
DESIGNED: DYO	DRAWN: DYO	
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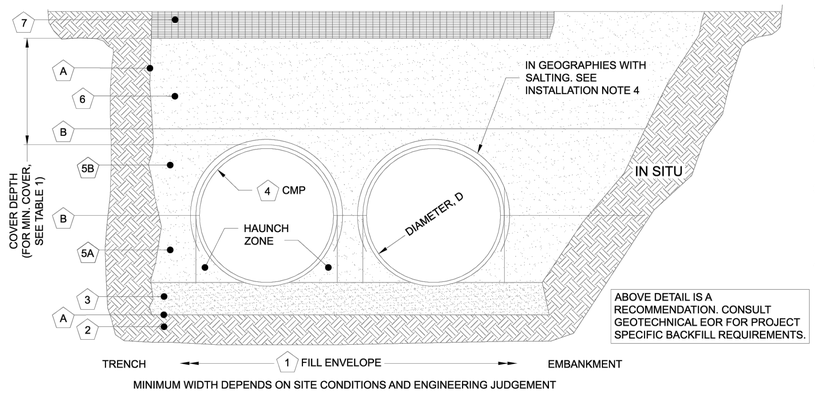
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TABLE 1:

DIAMETER, D	MIN. COVER	CORR. PROFILE
6"-10"	12"	1 1/2" x 1/4"
12"-48"	12"	2 2/3" x 1/2"
>48"-96"	12"	3" x 1", 5" x 1"
>96"	D/8	3" x 1", 5" x 1"

- STRUCTURAL BACKFILL MUST EXTEND TO LIMITS OF THE TABLE
- TOTAL HEIGHT OF COMPACTED COVER FOR CONVENTIONAL HIGHWAY LOADS IS MEASURED FROM TOP OF PIPE TO BOTTOM OF FLEXIBLE PAVEMENT OR TOP OF RIGID PAVEMENT
- ULTRAFLO ALSO AVAILABLE FOR SIZES 18" - 120" WITH 3/4"x 3/4"x 7 1/2" CORRUGATION



MINIMUM WIDTH DEPENDS ON SITE CONDITIONS AND ENGINEERING JUDGEMENT

INSTALLATION NOTES

1. WHEN PLACING THE FIRST LIFTS OF BACKFILL IT IS IMPORTANT TO MAKE SURE THAT THE BACKFILL IS PROPERLY COMPACTED UNDER AND AROUND THE PIPE HAUNCHES.
2. OTHER ALTERNATE BACKFILL MATERIAL MAY BE ALLOWED DEPENDING ON SITE SPECIFIC CONDITIONS, AS APPROVED BY SITE ENGINEER.
3. BACKFILL USING CONTROLLED LOW-STRENGTH MATERIAL (CLSM, "FLASH FILL" OR "FLOWABLE FILL") MAY BE USED WHEN THE SPACING BETWEEN THE PIPES WILL NOT ALLOW FOR PLACEMENT AND ADEQUATE COMPACTION OF THE BACKFILL. CONTACT CONTECH FOR FURTHER EVALUATION.
4. IF SALTING AGENTS FOR SNOW AND ICE REMOVAL ARE USED ON OR NEAR THE PROJECT, A GEOMEMBRANE BARRIER IS RECOMMENDED OVER THE UPPER HALF OF THE PIPE. THE GEOMEMBRANE LINER IS INTENDED TO HELP PROTECT THE SYSTEM FROM THE POTENTIAL ADVERSE EFFECTS THAT MAY RESULT FROM A CHANGE IN THE SURROUNDING ENVIRONMENT OVER A PERIOD OF TIME. PLEASE REFER TO THE CORRUGATED METAL PIPE DETENTION DESIGN GUIDE FOR ADDITIONAL INFORMATION.

TABLE 2: SOLID STANDARD

CMP DETENTION AND CMP DRAINAGE STANDARD BACKFILL SPECIFICATIONS

	MATERIAL LOCATION	MATERIAL SPECIFICATION	DESCRIPTION	
1	FILL ENVELOPE WIDTH	PER ENGINEER OF RECORD	MINIMUM TRENCH WIDTH MUST ALLOW ROOM FOR PROPER COMPACTION OF HAUNCH MATERIALS UNDER THE PIPE. THE SUGGESTED MINIMUM TRENCH WIDTH, OR EOR RECOMMENDATION: PIPE ≤ 12": D + 16" PIPE > 12": 1.5D + 12"	MINIMUM EMBANKMENT WIDTH (IN FEET) FOR INITIAL FILL ENVELOPE: PIPE < 24": 3.0D PIPE 24" - 144": D + 4'0" PIPE > 144": D + 10'0"
2	FOUNDATION	**AASHTO 26.5.2** OR PER ENGINEER OF RECORD	PRIOR TO PLACING THE BEDDING, THE FOUNDATION MUST BE CONSTRUCTED TO A UNIFORM AND STABLE GRADE. IN THE EVENT THAT UNSUITABLE FOUNDATION MATERIALS ARE ENCOUNTERED DURING EXCAVATION, THEY SHALL BE REMOVED AND FOUNDATION BROUGHT BACK TO GRADE WITH A FILL MATERIAL APPROVED BY THE ENGINEER OF RECORD.	
3	BEDDING	**AASHTO M 43: 3, 357, 4, 467, 5, 56, 57** (APPROVED REGIONAL EQUIVALENTS INCLUDE CA-7)	ENGINEER OF RECORD TO DETERMINE IF BEDDING IS REQUIRED. PIPE MAY BE PLACED ON THE TRENCH BOTTOM OF A RELATIVELY LOOSE, NATIVE SUITABLE WELL GRADED GRANULAR MATERIAL THAT IS ROUGHLY SHAPED TO FIT THE BOTTOM OF THE PIPE, 2" MIN DEPTH. THE BEDDING MATERIAL MAY BE SUITABLE FOUNDATION SOILS CONFORMING TO AASHTO SOIL CLASSIFICATIONS A1, A2, OR A3 WITH MAXIMUM PARTICLE SIZE OF 3" PER AASHTO 26.3.8.1	
4	CORRUGATED METAL PIPE			
5A	CRITICAL BACKFILL	**AASHTO M 145: A-1, A-2, A-3** *	HAUNCH ZONE MATERIAL SHALL BE HAND SHOVELED OR SHOVEL SLICED INTO PLACE TO ALLOW FOR PROPER COMPACTION WITHOUT SOFT SPOTS. BACKFILL SHALL BE PLACED IN 8" +/- LOOSE LIFTS AND COMPACTED TO 90% STANDARD PROCTOR PER AASHTO T 99. BACKFILL SHALL BE PLACED SUCH THAT THERE IS NO MORE THAN A THREE LIFT (24") DIFFERENTIAL BETWEEN ANY OF THE PIPES AT ANY TIME DURING THE BACKFILL PROCESS. THE BACKFILL SHOULD BE ADVANCED ALONG THE LENGTH OF THE SYSTEM TO AVOID DIFFERENTIAL LOADING. WELL GRADED GRANULAR MATERIAL WHICH MAY CONTAIN SMALL AMOUNTS OF SILT OR CLAY AND MAXIMUM PARTICLE SIZE OF 3" (PER AASHTO 26.3.8.1 AND 12.4-1.3).	
5B	BACKFILL	**AASHTO M 145: A-1, A-2, A-3**		
6	COVER MATERIAL	UP TO MIN. COVER - SEE 5A AND 5B ABOVE ABOVE MIN. COVER - PER ENGINEER OF RECORD	COVER MATERIAL MAY INCLUDE NON-BITUMINOUS, GRANULAR ROAD BASE MATERIAL WITHIN MIN COVER LIMITS	
7	RIGID OR FLEXIBLE PAVEMENT (IF APPLICABLE)	PER ENGINEER OF RECORD	FLEXIBLE PAVEMENT SHOULD NOT BE COUNTED AS PART OF THE FILL HEIGHT OVER THE CMP. FINAL BACKFILL MATERIAL SELECTION AND COMPACTION REQUIREMENTS SHALL FOLLOW THE PROJECT PLANS AND SPECIFICATIONS PER THE ENGINEER OF RECORD.	
A	OPTIONAL SIDE GEOTEXTILE	NONE	GEOTEXTILE LAYER IS RECOMMENDED ON SIDES OF EXCAVATION TO PREVENT SOIL MIGRATION.	
B	OPTIONAL GEOTEXTILE BETWEEN LAYERS	NONE	IF SOIL TYPES DIFFER AT ANY POINT ABOVE PIPE INVERT, A GEOTEXTILE LAYER IS RECOMMENDED TO BE PLACED BETWEEN THE LAYERS TO PREVENT SOIL MIGRATION.	

NOTES:
- FOR MULTIPLE BARREL INSTALLATIONS, THE RECOMMENDED STANDARD SPACING BETWEEN PARALLEL PIPE RUNS SHALL BE THE PIPE DIAMETER /2 BUT NO LESS THAN 12" FOR DIAMETERS <72". FOR 72" AND LARGER DIAMETERS, THE MINIMUM SPACING IS 36". CONTACT YOUR CONTECH REPRESENTATIVE FOR NONSTANDARD SPACING.

* APPROVED REGIONAL EQUIVALENTS FOR SECTION 5A INCLUDE CA-7, CODOT #67, MIDOT 2G, 34G, OR 21AA STONE OR GRAVEL; #8; #57; MIDOT 6A, 2G, 3G, 34G.

MANUFACTURER RECOMMENDED BACKFILL

NOT TO SCALE

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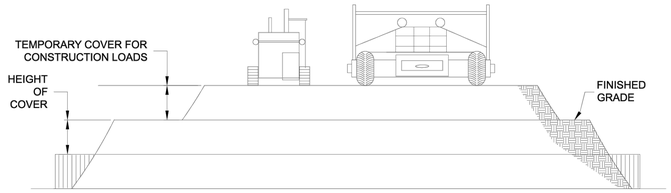
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CONSTRUCTION LOADS

FOR TEMPORARY CONSTRUCTION VEHICLE LOADS, AN EXTRA AMOUNT OF COMPACTED COVER MAY BE REQUIRED OVER THE TOP OF THE PIPE. THE HEIGHT-OF-COVER SHALL MEET THE MINIMUM REQUIREMENTS SHOWN IN THE TABLE BELOW. THE USE OF HEAVY CONSTRUCTION EQUIPMENT NECESSITATES GREATER PROTECTION FOR THE PIPE THAN FINISHED GRADE COVER MINIMUMS FOR NORMAL HIGHWAY TRAFFIC.

PIPE SPAN, INCHES	AXLE LOADS (kips)			
	18-50	50-75	75-110	110-150
	MINIMUM COVER (FT)			
12-42	2.0	2.5	3.0	3.0
48-72	3.0	3.0	3.5	4.0
78-120	3.0	3.5	4.0	4.0
126-144	3.5	4.0	4.5	4.5

*MINIMUM COVER MAY VARY, DEPENDING ON LOCAL CONDITIONS. THE CONTRACTOR MUST PROVIDE THE ADDITIONAL COVER REQUIRED TO AVOID DAMAGE TO THE PIPE. MINIMUM COVER IS MEASURED FROM THE TOP OF THE PIPE TO THE TOP OF THE MAINTAINED CONSTRUCTION ROADWAY SURFACE.

CONSTRUCTION LOADING DIAGRAM

SCALE: N.T.S.

SPECIFICATION FOR DESIGNED DETENTION SYSTEM:

SCOPE
THIS SPECIFICATION COVERS THE MANUFACTURE AND INSTALLATION OF THE DESIGNED DETENTION SYSTEM DETAILED IN THE PROJECT PLANS.

MATERIAL
THE MATERIAL SHALL CONFORM TO THE APPLICABLE REQUIREMENTS LISTED BELOW:

ALUMINIZED TYPE 2 STEEL COILS SHALL CONFORM TO THE APPLICABLE REQUIREMENTS OF AASHTO M-274 OR ASTM A-92.

THE GALVANIZED STEEL COILS SHALL CONFORM TO THE APPLICABLE REQUIREMENTS OF AASHTO M-218 OR ASTM A-929.

THE POLYMER COATED STEEL COILS SHALL CONFORM TO THE APPLICABLE REQUIREMENTS OF AASHTO M-246 OR ASTM A-742.

THE ALUMINUM COILS SHALL CONFORM TO THE APPLICABLE REQUIREMENTS OF AASHTO M-197 OR ASTM B-744.

CONSTRUCTION LOADS
CONSTRUCTION LOADS MAY BE HIGHER THAN FINAL LOADS. FOLLOW THE MANUFACTURER'S OR NCSPA GUIDELINES.

PIPE
THE PIPE SHALL BE MANUFACTURED IN ACCORDANCE TO THE APPLICABLE REQUIREMENTS LISTED BELOW:

ALUMINIZED TYPE 2: AASHTO M-36 OR ASTM A-760

GALVANIZED: AASHTO M-36 OR ASTM A-760

POLYMER COATED: AASHTO M-245 OR ASTM A-762

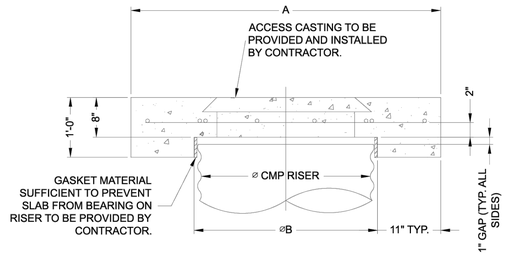
ALUMINUM: AASHTO M-196 OR ASTM B-745

HANDLING AND ASSEMBLY
SHALL BE IN ACCORDANCE WITH NCSP'S (NATIONAL CORRUGATED STEEL PIPE ASSOCIATION) FOR ALUMINIZED TYPE 2, GALVANIZED OR POLYMER COATED STEEL. SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS FOR ALUMINUM PIPE.

INSTALLATION
SHALL BE IN ACCORDANCE WITH AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES, SECTION 26, DIVISION II DIVISION II OR ASTM A-798 (FOR ALUMINIZED TYPE 2, GALVANIZED OR POLYMER COATED STEEL) OR ASTM B-788 (FOR ALUMINUM PIPE) AND IN CONFORMANCE WITH THE PROJECT PLANS AND SPECIFICATIONS. IF THERE ARE ANY INCONSISTENCIES OR CONFLICTS THE CONTRACTOR SHOULD DISCUSS AND RESOLVE WITH THE SITE ENGINEER.

IT IS ALWAYS THE RESPONSIBILITY OF THE CONTRACTOR TO FOLLOW OSHA GUIDELINES FOR SAFE PRACTICES.

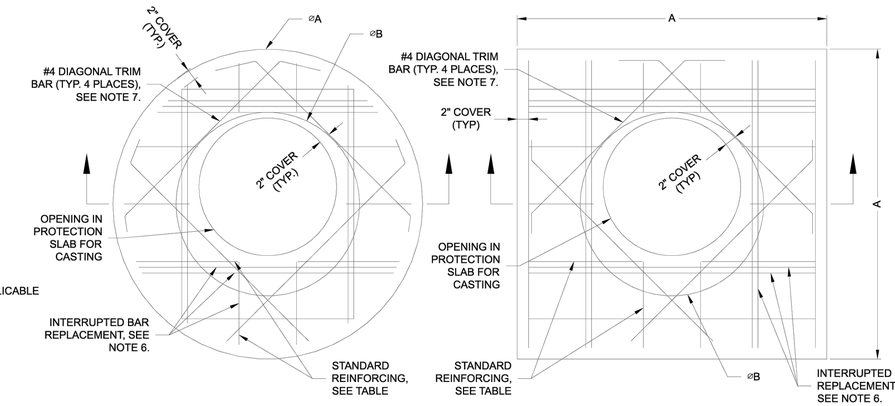
NOTE:
THESE DRAWINGS ARE FOR CONCEPTUAL PURPOSES AND DO NOT REFLECT ANY LOCAL PREFERENCES OR REGULATIONS. PLEASE CONTACT YOUR LOCAL CONTECH REP FOR MODIFICATIONS.



SECTION VIEW

REINFORCING TABLE				
⌀ CMP RISER	A	⌀ B	REINFORCING	**BEARING PRESSURE (PSF)
24"	⌀ 4' 4'X4'	26"	#5 @ 12" OCEW #5 @ 12" OCEW	2,410 1,780
30"	⌀ 4'-6" 4'-6" X 4'-6"	32"	#5 @ 12" OCEW #5 @ 12" OCEW	2,120 1,530
36"	⌀ 5' 5' X 5'	38"	#5 @ 10" OCEW #5 @ 10" OCEW	1,890 1,350
42"	⌀ 5'-6" 5'-6" X 5'-6"	44"	#5 @ 10" OCEW #5 @ 9" OCEW	1,720 1,210
48"	⌀ 6' 6' X 6'	50"	#5 @ 9" OCEW #5 @ 8" OCEW	1,600 1,100

** ASSUMED SOIL BEARING CAPACITY



ROUND OPTION PLAN VIEW

SQUARE OPTION PLAN VIEW

NOTES:

1. DESIGN IN ACCORDANCE WITH AASHTO, 17th EDITION.
2. DESIGN LOAD HS25.
3. EARTH COVER = 1' MAX.
4. CONCRETE STRENGTH = 3,500 psi
5. REINFORCING STEEL = ASTM A615, GRADE 60.
6. PROVIDE ADDITIONAL REINFORCING AROUND OPENINGS EQUAL TO THE BARS INTERRUPTED, HALF EACH SIDE. ADDITIONAL BARS TO BE IN THE SAME PLANE.
7. TRIM OPENING WITH DIAGONAL #4 BARS, EXTEND BARS A MINIMUM OF 12" BEYOND OPENING, BEND BARS AS REQUIRED TO MAINTAIN BAR COVER.
8. PROTECTION SLAB AND ALL MATERIALS TO BE PROVIDED AND INSTALLED BY CONTRACTOR.
9. DETAIL DESIGN BY DELTA ENGINEERING, BINGHAMTON, NY.

MANHOLE CAP DETAIL

SCALE: N.T.S.

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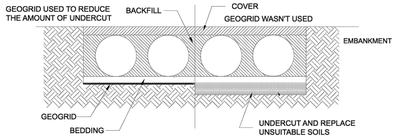
CMP DETENTION INSTALLATION GUIDE

PROPER INSTALLATION OF A FLEXIBLE UNDERGROUND DETENTION SYSTEM WILL ENSURE LONG-TERM PERFORMANCE. THE CONFIGURATION OF THESE SYSTEMS OFTEN REQUIRES SPECIAL CONSTRUCTION PRACTICES THAT DIFFER FROM CONVENTIONAL FLEXIBLE PIPE CONSTRUCTION. CONTECH ENGINEERED SOLUTIONS STRONGLY SUGGESTS SCHEDULING A PRE-CONSTRUCTION MEETING WITH YOUR LOCAL SALES ENGINEER TO DETERMINE IF ADDITIONAL MEASURES, NOT COVERED IN THIS GUIDE, ARE APPROPRIATE FOR YOUR SITE.

FOUNDATION

CONSTRUCT A FOUNDATION THAT CAN SUPPORT THE DESIGN LOADING APPLIED BY THE PIPE AND ADJACENT BACKFILL WEIGHT AS WELL AS MAINTAIN ITS INTEGRITY DURING CONSTRUCTION.

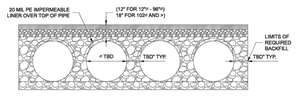
IF SOFT OR UNSUITABLE SOILS ARE ENCOUNTERED, REMOVE THE POOR SOILS DOWN TO A SUITABLE DEPTH AND THEN BUILD UP TO THE APPROPRIATE ELEVATION WITH A COMPETENT BACKFILL MATERIAL. THE STRUCTURAL FILL MATERIAL GRADATION SHOULD NOT ALLOW THE MIGRATION OF FINES, WHICH CAN CAUSE SETTLEMENT OF THE DETENTION SYSTEM OR PAVEMENT ABOVE. IF THE STRUCTURAL FILL MATERIAL IS NOT COMPATIBLE WITH THE UNDERLYING SOILS AN ENGINEERING FABRIC SHOULD BE USED AS A SEPARATOR. IN SOME CASES, USING A STIFF REINFORCING GEOGRID REDUCES OVER EXCAVATION AND REPLACEMENT FILL QUANTITIES.



GRADE THE FOUNDATION SUBGRADE TO A UNIFORM OR SLIGHTLY SLOPING GRADE. IF THE SUBGRADE IS CLAY OR RELATIVELY NON-POROUS AND THE CONSTRUCTION SEQUENCE WILL LAST FOR AN EXTENDED PERIOD OF TIME, IT IS BEST TO SLOPE THE GRADE TO ONE END OF THE SYSTEM. THIS WILL ALLOW EXCESS WATER TO DRAIN QUICKLY, PREVENTING SATURATION OF THE SUBGRADE.

GEOMEMBRANE BARRIER

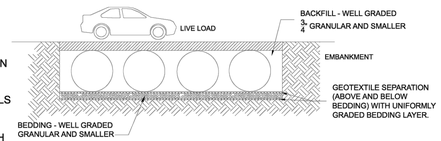
THE RESISTIVITY OF A PROJECT SITE MAY CHANGE OVER TIME DUE TO THE USE OF VARIOUS SALTING, DE-ICING, AND AGRICULTURAL AGENTS APPLIED ON OR NEAR THE AREA. TO MITIGATE THE POTENTIAL IMPACT OF THESE AGENTS, AN HDPE MEMBRANE LINER WILL BE INSTALLED ON THE CROWN OF EACH PIPE, CREATING AN IMPERMEABLE BARRIER. THIS MEASURE IS DESIGNED TO PROTECT THE SYSTEM FROM ENVIRONMENTAL CHANGES THAT COULD LEAD TO PREMATURE CORROSION AND REDUCE THE OVERALL SERVICE LIFE.



IN-SITU TRENCH WALL

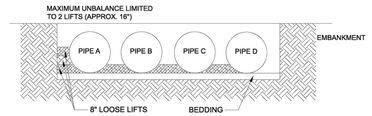
IF EXCAVATION IS REQUIRED, THE TRENCH WALL NEEDS TO BE CAPABLE OF SUPPORTING THE LOAD THAT THE PIPE SHEDS AS THE SYSTEM IS LOADED. IF SOILS ARE NOT CAPABLE OF SUPPORTING THESE LOADS, THE PIPE CAN DEFLECT. PERFORM A SIMPLE SOIL PRESSURE CHECK USING THE APPLIED LOADS TO DETERMINE THE LIMITS OF EXCAVATION BEYOND THE SPRING LINE OF THE OUTER MOST PIPES.

IN MOST CASES THE REQUIREMENTS FOR A SAFE WORK ENVIRONMENT AND PROPER BACKFILL PLACEMENT AND COMPACTION TAKE CARE OF THIS CONCERN.



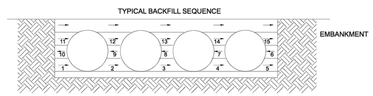
BACKFILL PLACEMENT

MATERIAL SHALL BE WORKED INTO THE PIPE HAUNCHES BY MEANS OF SHOVEL-SLICING, RODDING, AIR TAMPER, VIBRATORY ROD, OR OTHER EFFECTIVE METHODS.

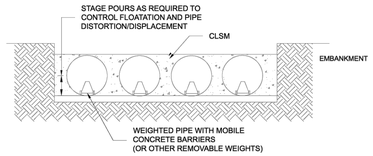


IF AASHTO T99 PROCEDURES ARE DETERMINED INFEASIBLE BY THE GEOTECHNICAL ENGINEER OF RECORD, COMPACTION IS CONSIDERED ADEQUATE WHEN NO FURTHER YIELDING OF THE MATERIAL IS OBSERVED UNDER THE COMPACTOR, OR UNDER FOOT, AND THE GEOTECHNICAL ENGINEER OF RECORD (OR REPRESENTATIVE THEREOF) IS SATISFIED WITH THE LEVEL OF COMPACTION.

FOR LARGE SYSTEMS, CONVEYOR SYSTEMS, BACKHOES WITH LONG REACHES OR DRAGLINES WITH STONE BUCKETS MAY BE USED TO PLACE BACKFILL. ONCE MINIMUM COVER FOR CONSTRUCTION LOADING ACROSS THE ENTIRE WIDTH OF THE SYSTEM IS REACHED, ADVANCE THE EQUIPMENT TO THE END OF THE RECENTLY PLACED FILL, AND BEGIN THE SEQUENCE AGAIN UNTIL THE SYSTEM IS COMPLETELY BACKFILLED. THIS TYPE OF CONSTRUCTION SEQUENCE PROVIDES ROOM FOR STOCKPILED BACKFILL DIRECTLY BEHIND THE BACKHOE, AS WELL AS THE MOVEMENT OF CONSTRUCTION TRAFFIC. MATERIAL STOCKPILES ON TOP OF THE BACKFILLED DETENTION SYSTEM SHOULD BE LIMITED TO 8- TO 10-FEET HIGH AND MUST PROVIDE BALANCED LOADING ACROSS ALL BARRELS. TO DETERMINE THE PROPER COVER OVER THE PIPES TO ALLOW THE MOVEMENT OF CONSTRUCTION EQUIPMENT SEE TABLE 1, OR CONTACT YOUR LOCAL CONTECH SALES ENGINEER.



WHEN FLOWABLE FILL IS USED, YOU MUST PREVENT PIPE FLOATATION. TYPICALLY, SMALL LIFTS ARE PLACED BETWEEN THE PIPES AND THEN ALLOWED TO SET-UP PRIOR TO THE PLACEMENT OF THE NEXT LIFT. THE ALLOWABLE THICKNESS OF THE CLSM LIFT IS A FUNCTION OF A PROPER BALANCE BETWEEN THE UPLIFT FORCE OF THE CLSM, THE OPPOSING WEIGHT OF THE PIPE, AND THE EFFECT OF OTHER RESTRAINING MEASURES. THE PIPE CAN CARRY LIMITED FLUID PRESSURE WITHOUT PIPE DISTORTION OR DISPLACEMENT, WHICH ALSO AFFECTS THE CLSM LIFT THICKNESS. YOUR LOCAL CONTECH SALES ENGINEER CAN HELP DETERMINE THE PROPER LIFT THICKNESS.

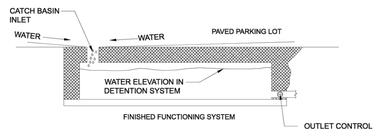


CONSTRUCTION LOADING

TYPICALLY, THE MINIMUM COVER SPECIFIED FOR A PROJECT ASSUMES H-20 LIVE LOAD. BECAUSE CONSTRUCTION LOADS OFTEN EXCEED DESIGN LIVE LOADS, INCREASED TEMPORARY MINIMUM COVER REQUIREMENTS ARE NECESSARY. SINCE CONSTRUCTION EQUIPMENT VARIES FROM JOB TO JOB, IT IS BEST TO ADDRESS EQUIPMENT SPECIFIC MINIMUM COVER REQUIREMENTS WITH YOUR LOCAL CONTECH SALES ENGINEER DURING YOUR PRE-CONSTRUCTION MEETING.

ADDITIONAL CONSIDERATIONS

BECAUSE MOST SYSTEMS ARE CONSTRUCTED BELOW-GRADE, RAINFALL CAN RAPIDLY FILL THE EXCAVATION; POTENTIALLY CAUSING FLOATATION AND MOVEMENT OF THE PREVIOUSLY PLACED PIPES. TO HELP MITIGATE POTENTIAL PROBLEMS, IT IS BEST TO START THE INSTALLATION AT THE DOWNSTREAM END WITH THE OUTLET ALREADY CONSTRUCTED TO ALLOW A ROUTE FOR THE WATER TO ESCAPE. TEMPORARY DIVERSION MEASURES MAY BE REQUIRED FOR HIGH FLOWS DUE TO THE RESTRICTED NATURE OF THE OUTLET PIPE.



CMP DETENTION SYSTEM INSPECTION AND MAINTENANCE

UNDERGROUND STORMWATER DETENTION AND INFILTRATION SYSTEMS MUST BE INSPECTED AND MAINTAINED AT REGULAR INTERVALS FOR PURPOSES OF PERFORMANCE AND LONGEVITY.

INSPECTION

INSPECTION IS THE KEY TO EFFECTIVE MAINTENANCE OF CMP DETENTION SYSTEMS AND IS EASILY PERFORMED. CONTECH RECOMMENDS ONGOING, ANNUAL INSPECTIONS. SITES WITH HIGH TRASH LOAD OR SMALL OUTLET CONTROL ORIFICES MAY NEED MORE FREQUENT INSPECTIONS. THE RATE AT WHICH THE SYSTEM COLLECTS POLLUTANTS WILL DEPEND MORE ON SITE SPECIFIC ACTIVITIES RATHER THAN THE SIZE OR CONFIGURATION OF THE SYSTEM.

INSPECTIONS SHOULD BE PERFORMED MORE OFTEN IN EQUIPMENT WASHDOWN AREAS, IN CLIMATES WHERE SANDING AND/OR SALTING OPERATIONS TAKE PLACE, AND IN OTHER VARIOUS INSTANCES IN WHICH ONE WOULD EXPECT HIGHER ACCUMULATIONS OF SEDIMENT OR ABRASIVE/ CORROSIVE CONDITIONS. A RECORD OF EACH INSPECTION IS TO BE MAINTAINED FOR THE LIFE OF THE SYSTEM

MAINTENANCE

CMP DETENTION SYSTEMS SHOULD BE CLEANED WHEN AN INSPECTION REVEALS ACCUMULATED SEDIMENT OR TRASH IS CLOGGING THE DISCHARGE ORIFICE.

ACCUMULATED SEDIMENT AND TRASH CAN TYPICALLY BE EVACUATED THROUGH THE MANHOLE OVER THE OUTLET ORIFICE. IF MAINTENANCE IS NOT PERFORMED AS RECOMMENDED, SEDIMENT AND TRASH MAY ACCUMULATE IN FRONT OF THE OUTLET ORIFICE. MANHOLE COVERS SHOULD BE SECURELY SEATED FOLLOWING CLEANING ACTIVITIES. CONTECH SUGGESTS THAT ALL SYSTEMS BE DESIGNED WITH AN ACCESS/INSPECTION MANHOLE SITUATED AT OR NEAR THE INLET AND THE OUTLET ORIFICE. SHOULD IT BE NECESSARY TO GET INSIDE THE SYSTEM TO PERFORM MAINTENANCE ACTIVITIES, ALL APPROPRIATE PRECAUTIONS REGARDING CONFINED SPACE ENTRY AND OSHA REGULATIONS SHOULD BE FOLLOWED.

ANNUAL INSPECTIONS ARE BEST PRACTICE FOR ALL UNDERGROUND SYSTEMS. DURING THIS INSPECTION, IF EVIDENCE OF SALTING/DE-ICING AGENTS IS OBSERVED WITHIN THE SYSTEM, IT IS BEST PRACTICE FOR THE SYSTEM TO BE RINSED, INCLUDING ABOVE THE SPRING LINE SOON AFTER THE SPRING THAW AS PART OF THE MAINTENANCE PROGRAM FOR THE SYSTEM.

MAINTAINING AN UNDERGROUND DETENTION OR INFILTRATION SYSTEM IS EASIEST WHEN THERE IS NO FLOW ENTERING THE SYSTEM. FOR THIS REASON, IT IS A GOOD IDEA TO SCHEDULE THE CLEANOUT DURING DRY WEATHER.

THE FOREGOING INSPECTION AND MAINTENANCE EFFORTS HELP ENSURE UNDERGROUND PIPE SYSTEMS USED FOR STORMWATER STORAGE CONTINUE TO FUNCTION AS INTENDED BY IDENTIFYING RECOMMENDED REGULAR INSPECTION AND MAINTENANCE PRACTICES. INSPECTION AND MAINTENANCE RELATED TO THE STRUCTURAL INTEGRITY OF THE PIPE OR THE SOUNDNESS OF PIPE JOINT CONNECTIONS IS BEYOND THE SCOPE OF THIS GUIDE.

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CONTECH CMP DETENTION SYSTEMS
CONTECH DYODS DRAWING

DYO72846 Riverton Heights Park
CMP, Facility 2
Seattle, WA
DETENTION SYSTEM

PROJECT No.:	SEQ. No.:	DATE:
52395	72846	10/14/2026
DESIGNED: DYO	DRAWN: DYO	
CHECKED: DYO	APPROVED: DYO	
SHEET NO.: 1		

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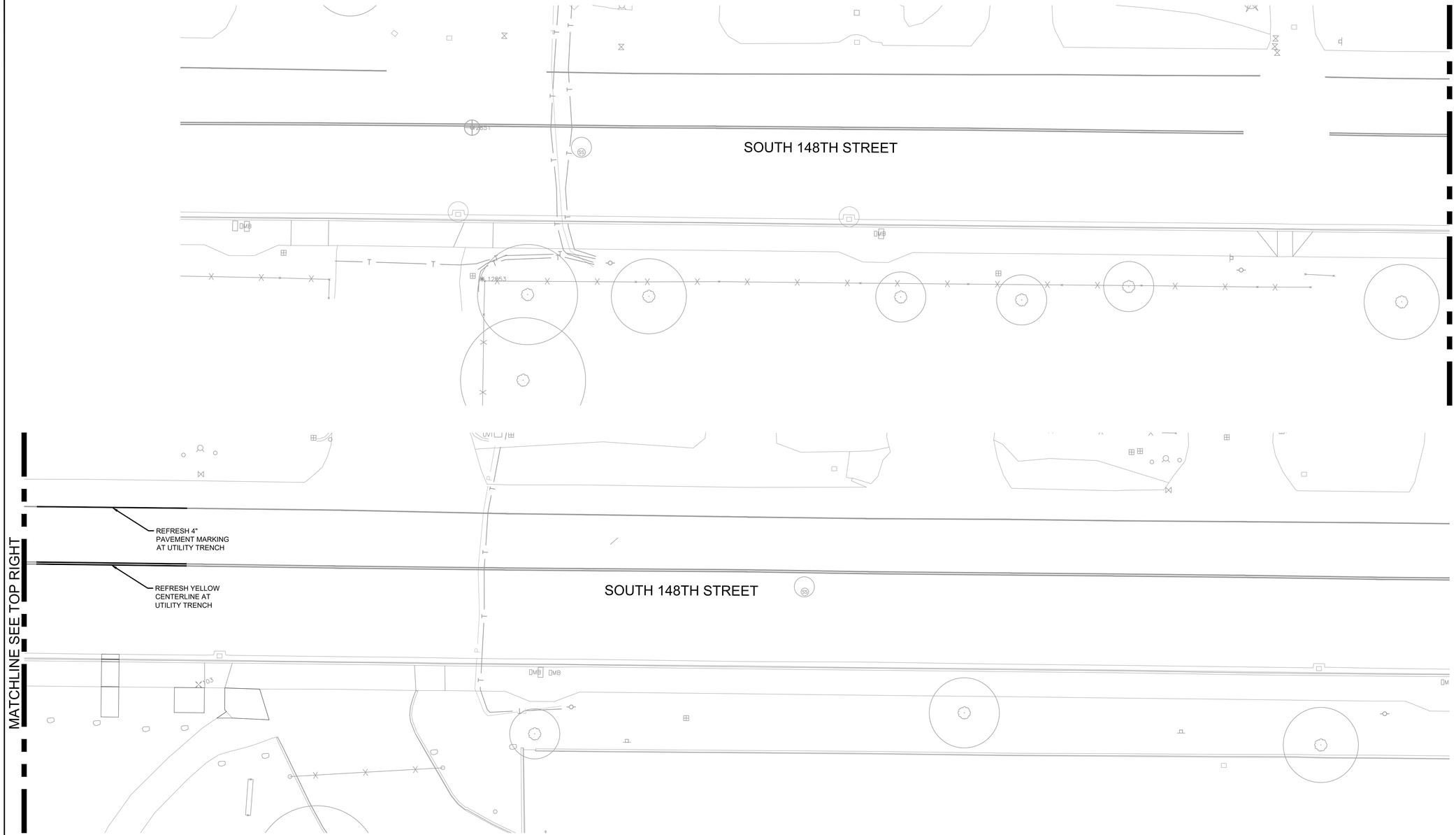
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REV #	DATE OF REV

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SHEET NAME
UTILITY DETAILS

SHEET #
UD-0.9



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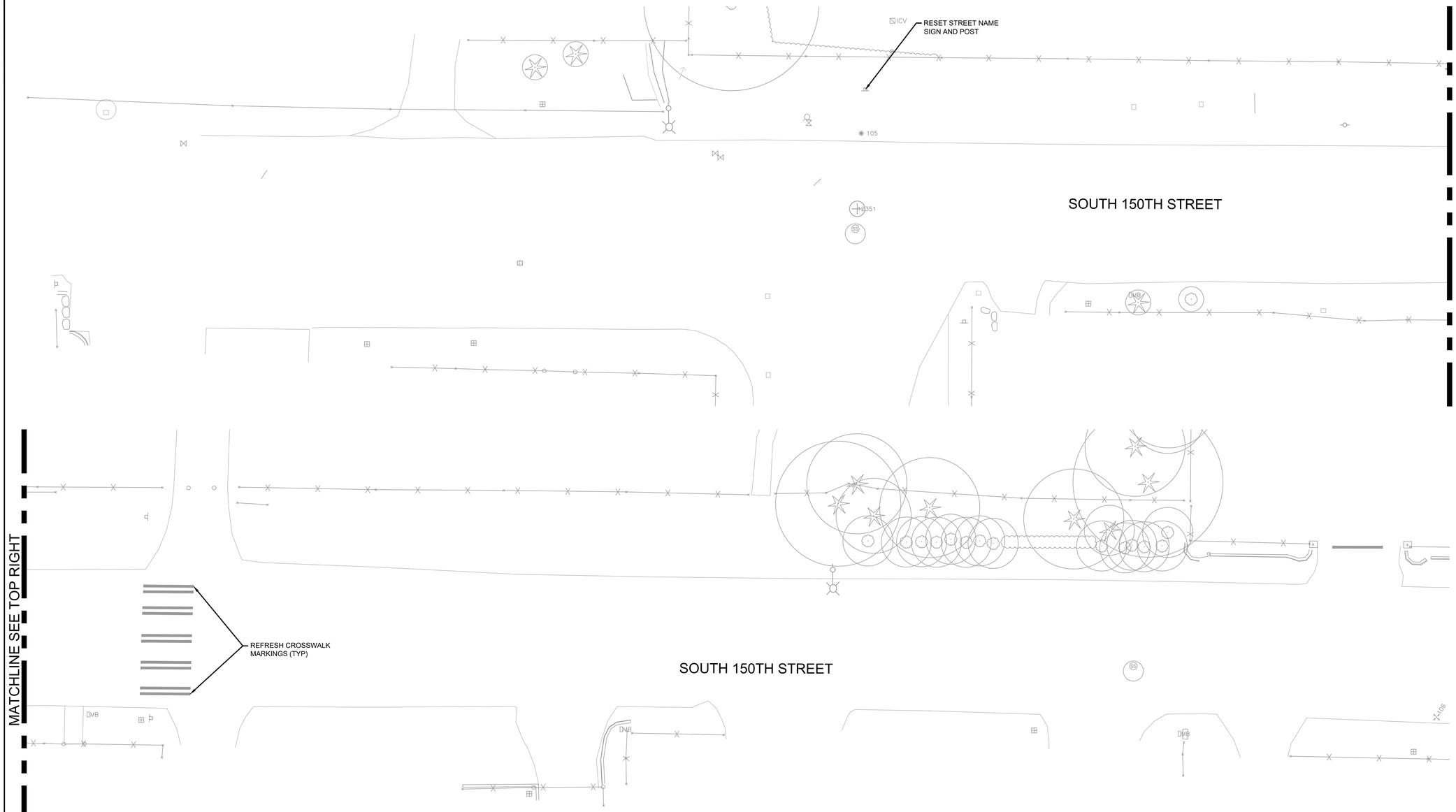
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CHANNELIZATION AND SIGNING PLAN

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SHEET NAME

CHANNELIZATION AND SIGNING PLAN

SHEET #

TP-0.2

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OCTOBER 28, 2026

ABBREVIATIONS LIST

TYPICAL ANNOTATION

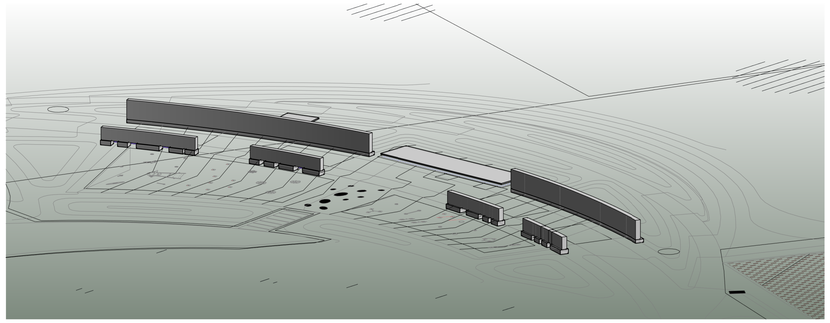
AB	ANCHOR BOLT
ABV	ABOVE
ADDL	ADDITIONAL
ADJ	ADJACENT
AESS	ARCHITECTURALLY EXPOSED STRUCTURAL STEEL
AFF	ABOVE FINISH FLOOR
ALT	ALTERNATE
APPRX	APPROXIMATE
ARCH	ARCHITECT
ASD	ALLOWABLE STRESS DESIGN
BF	BRACED FRAME
BLDG	BUILDING
BLKG	BLOCKING
BLW	BELOW
BM	BEAM
BN	BOUNDARY NAILING
BNDY	BOUNDARY
BOT	BOTTOM
BP	BASE PLATE
BRB	BUCKLING RESTRAINED BRACES
BRG	BEARING
BS	BOTH SIDES
BTWN	BETWEEN
CIP	CAST-IN-PLACE
CJ	CONSTRUCTION/CONTROL JOINT
CL	CENTERLINE
CLG	CEILING
CLR	CLEAR
CLT	CROSS-LAMINATED TIMBER
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
CONC	CONCRETE
CONN	CONNECTION
CONST	CONSTRUCTION
CONT	CONTINUOUS
CONTR	CONTRACTOR
CSK	COUNTERSINK
CTR	CENTER
CVR	COVER
D	DEEP
DBA	DEFORMED BAR ANCHOR
DBL	DOUBLE
D-F	DOUGLAS-FIR
DIAG	DIAGONAL
DIAPH	DIAPHRAGM
DIM	DIMENSION
DL	DEAD LOAD
DT	(PRE-ENGINEERED) DRAG TRUSS
EA	EACH
EA FACE	EACH FACE
EA SIDE	EACH SIDE
EA WAY	EACH WAY
EL	ELEVATION
ELEV	ELEVATOR
EMBED	EMBEDMENT
EN	END/EDGE NAILING
ENGR	ENGINEER
EOR	ENGINEER OF RECORD
EQ	EQUAL
EQUIV	EQUIVALENT
EXP	EXPANSION
EXT	EXTERIOR
FDN	FOUNDATION
FF	FINISH FLOOR
FFE	FINISH FLOOR ELEVATION
FLR	FLOOR
F/O	FACE OF
F/O CONC	FACE OF CONCRETE
F/O MAS	FACE OF MASONRY
F/O STUD	FACE OF STUD
FS	FAR SIDE
FT	FEET
FTG	FOOTING
FT-LB	FOOT POUNDS
GA	GAGE
GALV	GALVANIZED
GB	GRADE BEAM
GC	GENERAL CONTRACTOR
GL	GLUE LAMINATED
GLB	GLUE LAMINATED BEAM
GR	GRADE
GT	(PRE-ENGINEERED) GIRDER TRUSS
GWB	GYPSUM WALL BOARD
HDR	HEADER
HDU	HOLD DOWN
HF	HEM-FIR
HGR	HANGER
HORIZ	HORIZONTAL
HP	HIGH POINT
HSS	HOLLOW STRUCTURAL STEEL
HT	HEIGHT
HORIZ	HORIZONTAL
ICF	INSULATED CONCRETE FORM
IN	INCHES
INFO	INFORMATION
INT	INTERIOR
JST	JOIST
JT	JOINT
K	KIPS = 1000 LBS
KSI	KILOPOUNDS PER SQUARE INCH
L	ANGLE
LBS	POUNDS
LL	LIVE LOAD
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LOC	LOCATE, LOCATION
LONGIT	LONGITUDINAL
LP	LOW POINT
LSL	LAMINATED STRAND LUMBER
LVL	LAMINATED VENEER LUMBER
MAX	MAXIMUM
MB	MACHINE BOLT
MC	MOISTURE CONTROL
MECH	MECHANICAL
MFR	MANUFACTURER
MID	MIDDLE
MIN	MINIMUM
MISC	MISCELLANEOUS
MPH	MILES PER HOUR
MTL	METAL
NS	NEAR SIDE
NTS	NOT TO SCALE
NWT	NORMAL WEIGHT
OC	ON CENTER
OD	OUTSIDE DIAMETER
OPNG	OPENING
OPP	OPPOSITE HAND
PAF	POWDER ACTUATED FASTENER
P/C	PRE-CAST
PCF	POUNDS PER CUBIC FOOT
PERP	PERPENDICULAR
PL	PLATE
PLF	POUNDS PER LINEAR FOOT
PNL	PANEL
PRE-ENG	PRE-ENGINEERED
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PSL	PARALLEL STRAND LUMBER
P-T	POST-TENSIONED
PT	PRESSURE TREATED
PW	PLYWOOD
REF	REFERENCE
REINF	REINFORCEMENT
REQ'D	REQUIRED
RT	(PRE-ENGINEERED) ROOF TRUSS
SCHED	SCHEDULE
SF	SQUARE FEET
SHTG	SHEATHING
SIM	SIMILAR
SIMP	SIMPSON STRONG-TIE
SOG	SLAB ON GRADE
SPCG	SPACING
SQ	SQUARE
SS	STAINLESS STEEL
STD	STANDARD
STL	STEEL
STIFF	STIFFENER
STRUC	STRUCTURAL
SW	SHEAR WALL
SYMM	SYMMETRICAL
T&B	TOP & BOTTOM
T&G	TONGUE AND GROOVE
THK	THICK
THRD	THREADED
T/O	TOP OF
T/O CONC	TOP OF CONCRETE
T/O STL	TOP OF STEEL
TRANSV	TRANSVERSE
TS	TUBE STEEL
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
VERT	VERTICAL
VIF	VERIFY IN FIELD
W	WIDE
W/	WITH
W/O	WITHOUT
WF	WIDE FLANGE
WHS	WELDED HEADED STUD
WP	WORK POINT
WTS	WELDED THREADED STUD
WWF	WELDED WIRE FABRIC

SYMBOLIC

&	AND
@	AT
Ø	DIAMETER
#	POUND OR NUMBER
db	DIAMETER OF REBAR
Ld	REBAR DEVELOPMENT LENGTH
Ldh	HOOKED REBAR EMBEDMENT LENGTH
Ls	REBAR LAP SPLICE LENGTH
Lsbt	TENSION LAP SPLICE LENGTH
(E)	EXIST, EXISTING

PROPER NAMES

AAC	AUTOCLAVED AERATED CONCRETE
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION
AITC	AMERICAN INSTITUTE OF TIMBER CONSTRUCTION
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
ASCE	AMERICAN SOCIETY OF CIVIL ENGINEERS
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS
AWS	AMERICAN WELDING SOCIETY
AWC	AMERICAN WOOD COUNCIL
ESR	ICC EVALUATION SERVICE REPORT
IBC	INTERNATIONAL BUILDING CODE
L&I	LABOR & INDUSTRIES DEPARTMENT
NDS	NATIONAL DESIGN SPECIFICATION FOR WOOD CONST
SBC	SEATTLE BUILDING CODE
SDI	STEEL DECK INSTITUTE
SDCI	SEATTLE DEPARTMENT OF CONSTRUCTION & INSPECTIONS
SER	STRUCTURAL ENGINEER OF RECORD
SRC	SEATTLE RESIDENTIAL CODE
TMS	THE MASONRY SOCIETY
WABO	WASHINGTON ASSOCIATION OF BUILDING OFFICIALS



AXONOMETRIC PROJECTION

AXONOMETRIC PROJECTION DISCLAIMER:

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S1.2	STRUCTURAL GENERAL NOTES
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S2.0	FOUNDATION PLAN
S3.1	STRUCTURAL CONCRETE DETAILS
S3.2	STRUCTURAL CONCRETE DETAILS
S3.3	STRUCTURAL CONCRETE DETAILS

GRAPHIC SYMBOL LEGEND

CONCRETE WALL (ABOVE)
CONCRETE WALL (BELOW)
CMU WALL (ABOVE)
CMU WALL (BELOW)
WOOD/CFS SHEAR WALL (ABOVE)
WOOD/CFS STUD WALL (ABOVE)
WOOD/CFS STUD WALL (BELOW)
CONCRETE BY OTHERS (CUT)
GRAVEL (CUT)
EARTH (CUT)
OVERFRAMING
BLOCKED DIAPHRAGM

CONCRETE COLUMN (ABOVE)
CONCRETE COLUMN (BELOW)
WOOD POST (ABOVE)
WOOD POST (BELOW)
STEEL HSS COLUMN (ABOVE)
STEEL HSS COLUMN (BELOW)
STEEL WIDE FLANGE COLUMN (ABOVE)
STEEL WIDE FLANGE COLUMN (BELOW)

C#
HDU#
#K+#T
CONCRETE COLUMN TYPE
SIMPSON TENSION TIE HOLDOWN
NUMBER OF KINGS PLUS TRIMMERS
JOIST SPAN
DECK SPAN
EXTENT
SLOPE PER ARCH
SURFACE SLOPE PER ARCHITECT

DETAIL REFERENCE NO.
S###
DETAIL CALLOUT
SHEET REFERENCE NO.

DETAIL REFERENCE NO.
S###
ELEVATION CALLOUT
SHEET REFERENCE NO.

DETAIL REFERENCE NO.
S###
SECTION CALLOUT
SHEET REFERENCE NO.

BID SET

OWEN JOHN PAUL BOWER
STATE OF WASHINGTON
49147
STRUCTURAL ENGINEER
PROFESSIONAL ENGINEER
10/28/2026

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REV #	DATE OF REV

LO PROJECT # 22-182-01
DRAWN BY JG, JK
CHECKED BY KR
DATE OCTOBER 28, 2026
SHEET NAME

STRUCTURAL TITLE SHEET

SHEET # SHEET ____ OF ____

S1.1

GENERAL REQUIREMENTS

SUMMARY OF WORK
Project consists of new construction of concrete walls and foundations for site elements at Riverton heights Park as shown on these Contract Documents used in coordination with the Landscape Architect and other discipline's documents.

GOVERNING CODE
All design and construction shall conform to the 2021 International Building Code and local jurisdiction amendments.

Reference to ASTM and other standards shall refer to the latest edition designated by IBC Chapter 35. Refer to the specifications for information in addition to that covered by these structural notes and drawings.

DOCUMENTS
Structural Documents shall be used in conjunction with Architectural Documents for all bidding and construction.

Drawings indicate general and typical details of construction. Typical details and general notes shall apply even if not specifically denoted on plans, UNO. Where conditions are not specifically indicated similar details of construction shall be used, subject to review and approval by the Architect and the SER.

Existing structural information, designated as (E) on the Structural drawings, has been compiled from information furnished by various sources and is not necessarily field-verified by the Engineer. Dimensions relating to existing structures are intended for use as guidelines only; all dimensions shall be field-verified by the contractor prior to start of construction. Notify the Architect of any discrepancies.

These Contract Documents and any materials used in preparation of them, including calculations, are the exclusive property of the SER and can be reproduced only with the permission of the SER.

WARRANTY
The SER has used that degree of care and skill ordinarily exercised under similar circumstances by members of the profession in this locale and no other warranty, either expressed or implied, is made in connection with rendering professional services.

OWNER RESPONSIBILITY
The Owner shall retain a Special Inspector to perform the special inspection requirements required by the building official and as outlined in the Special Inspection section below.

DESIGN CRITERIA

BUILDING CATEGORY
Structural Risk Category II
Importance factors for snow and seismic are listed with the loading criteria.

LIVE LOADS - FLOOR AND ROOF
Pre-engineered Restroom and Mechanical Facility:

Mechanical equipment	weights furnished by manufacturer
Restroom	100 psf
Roof	20 psf

LIVE LOADS - SNOW
Numbering below is per IBC Section 1603.1.3:
1. Flat-Roof Snow Load: P_f = 20 psf
2. Snow Exposure Factor: C_e = 1.2
3. Snow Importance Factor: I_s = 1.0
4. Thermal Factor: C_t = 1.1

Additional Items:
Ground Snow Load: P_g = 22 psf
Snow drifting load per IBC w/ ground snow load
Minimum uniform roof snow load = 25 psf

LATERAL LOADS - WIND
Numbering below is per IBC Section 1603.1.4:
1. Ultimate Design Wind Speed (3-second gust): V_{ult} = 97 mph
   Nominal Design Wind Speed: V_{asd} = 75 mph
2. Risk Category: II
3. Wind Exposure: B
4. Internal Pressure Coefficient = +/- 0.18
5. Components and Cladding:
   The following working loads may be used in lieu of calculations (zones per ASCE 7-16 Table 30.6-2) :

TABLE 30.6-2

Location	Zone	Pressure (PSF) (100 Sq Ft)	
		Service	Ultimate
Roof	1'	-10 / +10	-16 / +16
	1	-13.4 / +10	-22.3 / +16
	2	-17.7 / +10	-29.5 / +16
	3	-21.1 / +10	-35.2 / +16
Walls	4	-10 / +10	-16 / +16
	5	-10.2 / +10	-17.0 / +16

Additional Info:
6. Topographic Factor: K_{zt} = 1.0
7. Directionality Factor: K_d = 0.85
8. Ground Elevation Factor: K_e = 1.0
9. Enclosure classification: Enclosed
10. Gust Effect Factor: G = 0.85
11. Design base shear: Per Manufacturer (Pre-Engineered Restroom)
12. Analysis procedure: Per Manufacturer (Pre-Engineered Restroom)

LATERAL LOADS - EARTHQUAKE
Numbering below is per IBC Section 1603.1.5:
1. Risk Category: II
2. Seismic Importance Factor: I_e = 1.0
3. Mapped Spectral Response Acceleration Parameters: S_s = 1.503 g; S_1 = 0.511 g
4. Site Class: D; F_A = 1.0; F_V = 1.79
5. Design Spectral Response Acceleration Parameters: S_{DS} = 1.002 g; S_{D1} = 0.609 g
6. Seismic Design Category: D
7. Design Base Shear: 1.5 Kips (Sculpture Plinth)
8. Seismic Response Coefficient: C_s = 0.501 (Sculpture Plinth)
9. Response Modification Coefficient: R = 2 (Sculpture Plinth)
10. Basic Seismic Force-Resisting System (Pre-Engineered Restroom):
    Vertical Elements: Bearing walls, Special Reinforced Masonry Shear walls
    Diaphragms: Metal Deck
11. Response Coefficient: Cs = 0.200 (Pre-Engineered Restroom)
12. Response Modification Coefficient: R = 5 (Pre-Engineered Restroom)
13. Analysis Procedure: Per Manufacturer (Pre-Engineered Restroom)

CONTRACTOR PERFORMANCE REQUIREMENTS

DESIGN DOCUMENTS
Contractor shall verify all dimensions and all conditions at the job site, including building and site conditions before commencing work, and be responsible for same. All discrepancies shall be reported to the Architect before proceeding with work. Any errors, ambiguities and/or omissions in the contract documents shall be reported to the Architect immediately, in writing. No work is to be started before correction is made.

Contractor shall verify and/or coordinate all dimensioned openings and slab edges shown on the contract documents. Some dimensions, openings and embedded items are shown on the Structural drawings. Others may be required. Refer to Architectural drawings for size and location of curbs, equipment pads, wall and floor openings, Architectural treatment, embeds required for architectural items and dimensions. Refer to mechanical, plumbing, electrical and fire protection drawings for size and location of all openings for ducts, piping, conduits, etc. Submit openings to Architect for review.

Do not scale drawings. Use only field verified dimensions. When electronic plan files are provided for the Contractor's detailing convenience, it shall be noted that the electronic files are not guaranteed to be dimensionally accurate. The Contractor uses them at their own risk. The published paper documents are the controlling Contract Documents. Electronic files of detail sheets and notes will not be provided.

CONTRACTOR-INITIATED CHANGES
Contractor-initiated changes shall be submitted in writing to the Architect for review and acceptance prior to fabrication or construction. Changes shown on shop drawings only will not satisfy this requirement.

INSPECTIONS
The Contractor shall coordinate with the building department for all building department required inspections.

TEMPORARY SHORING AND BRACING
The Contractor shall provide temporary bracing as required until all permanent connections and stiffening have been installed. The Contractor is responsible for the strength and stability of all partially completed structures including but not limited to concrete or masonry walls, steel framing and erection aids. The Contractor shall, at their discretion, employ the aid of a licensed Structural Engineer to design all temporary bracing and shoring necessary to complete the work described in these contract documents. The Contractor shall be responsible for all required safety standards, safety precautions and the methods, techniques, sequences or procedures required in performing their work. For concrete construction refer to ACI 318 - Section 26.11.2 "Removal of Formwork".

SAFETY PROCEDURES
Contractor shall be responsible for all safety precautions and the methods, techniques, sequences or procedures required to perform the contractor's 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 to the Owner, Contractors, or other entities or persons at the project site.

SHOP DRAWINGS AND SUBMITTALS

SHOP DRAWING & SUBMITTAL REVIEW (including Deferred Structural Components)
The contractor must review and stamp the shop drawings & submittals for review. SER will only review submittals for items shown on SER documents. Submittals for Deferred Structural Components will receive cursory review by SER for loads imposed on primary structure. SER will review shop drawings for general conformance with design concept of the project and general compliance with the information given in the Structural Contract Documents. Review of submittals does not constitute approval or acceptance of unauthorized deviation from Contract Documents.

Corrections or comments made on shop drawings during this review do not relieve Contractor from compliance with the requirements of the plans and specifications.

Contractor responsible for:
- Reviewing, approving, stamping and signing submittals prior to submittal to Architect and SER
- Timing submittals to allow two weeks of review time for the SER and time for corrections and/or resubmittal
- Conformance to requirements of the Contract Documents
- Dimensions and quantities
- Verifying information to be confirmed or coordinated
- Information solely for fabrication, safety, means, methods, techniques and sequences of construction
- Coordination of all trades

Resubmittals shall be clouded and dated for all changes to the submittal. Only clouded portions of resubmittal will be reviewed and SER's review stamp applies to only these areas.

SUBSTITUTIONS
Substitutions shall be submitted in writing prior to submittal of shop drawings. Shop drawings bearing substitutions will be rejected. Submit engineering data to substantiate the equivalence of the proposed items. The SER's basic services contract does not include review of substitutions that require re-engineering of the item or adjacent structure. Nor does the SER's contract cover excessive review of proposed substitutions. The fees for making these reviews and/or redesign shall be paid by the Contractor. Reviews and approvals shall not be made until authorization is received.

SUBMITTALS
Shop drawings and material submittals shall be submitted to the Architect and SER prior to any fabrication or construction for the following structural items. Submittals shall include one reproducible and one copy; reproducible will be marked and returned. If deviations, discrepancies, or conflicts between shop drawings submittals and the contract documents are discovered either prior to or after shop drawing submittals are processed by the SER, the Contract Documents control and shall be followed.

- Construction sequence description
- Contractor quality control testing procedures when required in specifications
- Concrete mix designs
- Concrete construction control joint plans and elevations
- Concrete accessories material specification, size and location
- Reinforcing bar shop drawings and placing plans
- Reinforcing bar mill certificates shall be available upon request
- Deferred Structural Components listed below
- Non-shrink grout material specifications and manufacturer's installation recommendation
- Fabrication shop AISC certification
- Structural steel registration/certification or quality control inspection records
- Structural steel shop and erection drawings
- Certificate of Conformance for welding material, including supplemental notch toughness requirements

DEFERRED STRUCTURAL COMPONENTS
Components referred to as Deferred Structural Components shall comply with these notes. These elements have not been permitted under the base building application. The Contractor will be required to submit the component system documents to the building official for approval. The documents shall be stamped and signed by an Engineer licensed by the state where the project is located. The deferred structural components shall not be installed until the design and submittal documents have been approved by the building official.

Prior to building department submittal, the deferred structural components submittals shall receive cursory review by SER for loads imposed on primary structure and general conformance with design concept of the project and general compliance with the information given in the Structural Contract Documents. Review of submittals does not constitute approval or acceptance of unauthorized deviation from Contract Documents. Submittals of contractor-designed components shall include the designing professional engineer's stamp and signature, as noted above. The submittal shall be approved by the component vendor prior to review by the SER. The designing professional is responsible for code conformance and all necessary connections not specifically called out on Architectural or structural contract documents.

Submittals shall include details of connections to primary structure that indicate magnitude and direction of all loads imposed at point of connection. Design criteria shall be provided with submittal and calculations shall be made available upon request.

SHOP DRAWINGS AND SUBMITTALS (Cont'd)

The following list includes the items that are defined as Deferred Structural Components. Refer to other discipline's contract documents for additional deferred components that may require structural design and details. Connections of these elements shall not induce torsion on structural members. Deferred Structural Components shall be manufactured, delivered, handled, stored, and field erected in conformance with instructions prepared by the component vendor.

Deferred structural components:
- Pre-engineered Restroom and Mechanical Facility.
- Mechanical equipment and tank anchorage.
- FRP Grating and Connections.

INSPECTIONS & STRUCTURAL OBSERVATIONS

INSPECTIONS BY BUILDING OFFICIAL
The building official, upon notification, shall make structural inspections as required by local ordinance. The inspection by the building official per IBC Section 110 will be separate from, and in addition to, the structural observation(s) and special inspection(s) mentioned subsequently.

STRUCTURAL OBSERVATION
Where required by IBC Section 1704.6 the owner or the owner's authorized agent shall employ a structural observer to perform structural observations. Structural observation does not include or waive the responsibility for inspections or special inspections required by the building code and mentioned herein. The structural observer shall be one of the following individuals: the SER, or a registered design professional designated by the SER.

At the conclusion of the work included in the permitted contract documents, the structural observer shall submit to the building official a written statement that the site visits have been made and shall identify any reported deficiencies that, to the best of the structural observer's knowledge, have not been resolved.

The following list includes the items requiring Structural Observation:

FOUNDATIONS:
- Concrete foundations reinforcement prior to concrete placement

SPECIAL INSPECTIONS
A Special Inspector shall be hired by the Owner to perform the following special inspections per IBC Section 1704. See the specifications for additional requirements for special inspection and testing. The architect, Structural Engineer, and building department shall be furnished with copies of all inspection reports and test results.

Each contractor responsible for the construction of a seismic force resisting system, designated seismic system, or component listed in the statement of special inspections shall submit a written statement of responsibility to the building official and the Owner prior to the commencement of work on the system or component. The written statement shall be in accordance with IBC Section 1704.4.

See IBC Chapter 17: "Special Inspections and Tests" for more detailed requirements.

SPECIAL INSPECTIONS AND TESTS OF SOILS (PER IBC 1705.6)

Verification and Inspection	Frequency		Reference
	Cont.	Periodic	
Verify materials below shallow foundations are adequate to achieve the design bearing capacity		X	
Verify that excavations are extended to proper depth and have reached proper material		X	
Perform classification and testing of compacted fill materials		X	
Verify use of proper materials, densities and lift thicknesses during placement and compaction of compacted fill	X		
Prior to placement of compacted fill, observe subgrade and verify that site has been prepared properly		X	

SPECIAL INSPECTIONS AND TESTS OF CONCRETE CONSTRUCTION (PER IBC 1705.3)

Verification and Inspection	Frequency		Reference
	Cont.	Periodic	
Inspect reinforcement and verify placement		X	ACI 318: 20, 25.2-3, 26.6.1-3
Inspection of anchors cast in concrete		X	ACI 318: 17.8.2
Inspection of anchors and reinforcing bar post-installed in hardened concrete members:			
• Adhesive anchors installed in horizontally or upwardly inclined orientations to resist sustained tension loads	X		ACI 318: 17.8.2.4
• Mechanical anchors, adhesive anchors and reinforcing bar not defined above		X	ACI 318: 17.8.2
Verifying use of required design mix		X	IBC 1904.1, 1904.2, ACI 318: 19, 26.4.3, 26.4.4
Prior to concrete placement, fabricate specimens for strength tests, perform slump and air content tests, and determine the temperature of the concrete	X		ACI 318: 26.5, 26.12 ASTM C172, C31
Inspection of concrete placement for proper application techniques	X		ACI 318: 26.5.3-5
Verify maintenance of specified curing temperature and techniques		X	ACI 318: 26.5.3-5
Inspect formwork for shape, location and dimensions of the concrete being formed		X	ACI 318: 26.11.1.2(b)

INSPECTIONS& STRUCTURAL OBSERVATIONS (Cont'd)

SPECIAL INSPECTIONS OF STRUCTURAL STEEL CONSTRUCTION OTHER THAN SEISMIC LATERAL FORCE RESISTING SYSTEMS (PER IBC 1705.2.1)

Verification and Inspection	QC	QA	Reference
Inspection of fabricator's quality control procedures	P	P	IBC 1704.2.5 AISC 360-N.2
Review of material test reports and certifications listed in AISC Section N3.2	P	P	AISC 360-N.5.2 AWS D1.1
Inspect the fabricated steel or erected steel frame to verify compliance with the details shown on the construction documents	P	P	AISC 360-N.5.8
Inspection during the placement of anchor rods and other emebedments supporting structural steel	O	O	AISC 360-N.5.8
Non-destructive testing of welded joints			AISC 360-N5.5 AWS D1.1
Inspection of welding of structural steel			
Inspection tasks prior to welding of structural steel:			
Welder qualification records and continuity records	P	O	AISC 360-N5.4-1 AWS D1.1
WPS available	P	P	
Manufacturer certifications for welding consumables available	P	P	
Material identification (type/grade)	O	O	
Welder identification system	O	O	
Fit-up of fillet welds • Dimensions (alignment, gaps at root) • Cleanliness (condition of steel surfaces) • Tacking (tack weld quality and location)	O	O	
Check welding equipment	O	-	
Inspection tasks during welding of structural steel:			AISC 360-N5.4-2 AWS D1.1
Control and handling of welding consumables • Packaging • Exposure Control	O	O	
No welding over cracked weld tabs	O	O	
Environmental Conditions • Wind speed within limits • Precipitation and temperature	O	O	
WPS followed • Settings on welding equipment • Travel speed • Selected welding materials • Selected welding materials • Shielding gas type/flow rates • Interpass temperature maintained (min./max.) • Proper position (F,V,H,OH)	O	O	
Welding techniques • Interpass and final cleaning • Each pass within profile limitations • Each pass meets quality requirements	O	O	
Inspection tasks after welding of structural steel:			AISC 360-N5.4-3 AWS
Welds cleaned	O	O	
Size, length and location of welds	P	P	
Welds meet visual acceptance criteria • Crack prohibition • Weld/base-metal fusion • Crater cross section • Weld Profiles • Weld Size • Undercut • Porosity	P	P	
Arc Strikes	P	P	
Repair activities	P	P	
Document acceptance or rejection of welded joint or member	P	P	
No prohibited welds have been added without the approval of the EOR	O	O	

P - Perform O - Observe



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REV #	DATE OF REV

BID SET

LO PROJECT # 22-182-01
DRAWN BY JG, JK
CHECKED BY KR
DATE OCTOBER 28, 2026
SHEET NAME
STRUCTURAL GENERAL NOTES
SHEET # SHEET ____ OF ____

S1.2

GEOTECHNICAL

REPORT & GENERAL CRITERIA
Criteria outlined in the report listed below was used for the design of the foundations:
Limited Geotechnical Investigation Riverton Heights Park Improvements
prepared by Cobalt Geosciences (November 1, 2016)

Contractor shall be familiar with recommendations in the above-mentioned report prior to start of construction. Allowable soil pressure and lateral earth pressure are assumed and therefore must be verified by a Geotechnical Inspector or the building official. If soils are found to be other than assumed, notify the Structural Engineer for possible foundation redesign. For wet weather work, see the Geotechnical Report.

Unless noted otherwise, footings shall be centered below columns or walls.

INSPECTIONS
All prepared soil-bearing surfaces shall be inspected by the Owners Geotechnical Inspector (or building official) prior to placement of reinforcing steel and concrete. Inspections shall be made per IBC Table 1705.6 or 1705.8.

BEARING VALUES
All footings shall bear on undisturbed soil and shall be lowered to firm bearing if suitable soil is not found at elevations shown. Exterior footings shall bear a minimum of 18" below the finished ground surface. Footing elevations shown on plans (or in details) are minimum depths and for guidance only; the actual elevations of footings must be established by the Contractor in the field working with the Geotechnical Inspector.

Allowable vertical bearing soil pressure = 2,000 psf

SUBGRADE PREPARATION
Prepare subgrade per the Geotechnical Report, summarized as follows: All footings shall be cast on undisturbed firm natural soils that are free of organic materials. Footing excavation shall be free of loose soils, sloughs, debris and free of water at all times. If organic silt and/or fill material is encountered at subgrade elevations, overexcavate a minimum of 2'-0" below the design foundation subgrade elevation prior to placing footings. The overexcavated areas shall be backfilled with structural fill compacted to 95% proctor per ASTM D-1557 or a lean concrete mix.

EXISTING UTILITIES
The Contractor shall determine the location of all adjacent underground utilities prior to any excavation, shoring, pile driving, or pier drilling. Any utility information shown on the plans and details are approximate and not verified by the SER. Contractor is to provide protection of any utilities or underground structures during construction.

DRAINAGE
Drainage systems, including foundation, roof and surface drains, shall be installed as directed by the Geotechnical Report. Vapor retarder placed below slab-on-grade shall conform to ASTM E 1643 and ASTM E 745.

RETAINING WALLS
Grade on either side of concrete walls shall not vary by more than 12", UNO. Slope of backfill shall not exceed 2H to 1V, UNO. Backfill behind all retaining walls with free draining, granular fill installed per the Geotechnical Report. Provide for subsurface drainage. Design pressures used for the design of retaining walls are based on drained conditions.

Active earth pressure (restrained/unrestrained) = 55/35 PCF
Passive earth pressure = 250 PCF
Coefficient of friction (factor of safety of 1.5 included) = 0.4

Provide temporary shoring for tops of walls if backfill is placed prior to the supporting structure being constructed. Supporting structure is the floor framing and sheathing completely installed and attached to perpendicular walls.

CONCRETE

CAST-IN-PLACE CONCRETE
Concrete materials shall conform to the following:

Portland cement:	Type 1, ASTM C150
Fly ash (if used):	ASTM C618 class F or C
Slag cement (if used):	ASTM C989
Lightweight aggregates:	lightweight aggregates shall not be used without prior approval of SER and building department
Normal weight aggregates:	ASTM C33
Sand equivalent:	ASTM C33
Water:	Potable per ASTM C94
Air entraining admixtures:	ASTM C260
Chemical admixtures:	ASTM C494
Flowable concrete admixtures:	ASTM C1017

Durability requirements of concrete mixes shall conform to building code. These requirements include water-cementitious material ratios, minimum compressive strengths, air entrainment, type of cement, and maximum chloride ion content.

CONCRETE STRENGTH REQUIREMENTS TABLE

Location	Strength f'c (psi)	Max Agg Size	Max W/C Ratio	Total Air Content	Exposure Categories and Classes			
					F	S	W	C
Foundations, grade beams, stem walls	4,000	1"	0.44	4.5%	F1	S0	W0	C1

CONCRETE MIXTURES
Mixes shall be proportioned to meet compliance requirements of ACI 318 Section 26.4.3. Slump, W/C ratio, admixtures and aggregate size will be determined by the contractor. Submit documentation of concrete mixture characteristics for review by the SER before the mixture is used and before making changes to mixtures already in use. Documentation shall comply with ACI 318 Section 26.4.4.

All concrete, including slab on grade, shall contain an acceptable water-reducing admixture conforming to ASTM C494 and be used in strict accordance with the manufacturer's recommendations.

All concrete which is exposed to freezing and thawing in a moist condition or exposed to deicing chemicals shall contain an air entraining agent, conforming to ASTM C260. Total air content shall be adjusted per ACI 318 for mix designs with smaller nominal aggregate size. The amount of entrained air shall be measured at the discharge end of the placing nozzle. Entrained air shall be as noted ± 1.0% by volume. Air-entrainment shall not be used at slabs that will receive a smooth, dense, hard-troweled finish.

Trucks hauling plant-mixed concrete shall arrive on-site with a field ticket indicating the maximum gallons of water that can be added at the site not to exceed the total water content in the approved mix design.

Concrete shall be deposited as nearly as practicable in its final position to avoid segregation due to rehandling or flowing. Concrete shall be thoroughly consolidated by suitable means during placement and shall be thoroughly worked around reinforcement, embedded items, and into corners of forms.

CONCRETE (Cont'd)

FORMWORK AND ACCESSORIES
Concrete construction shall conform to ACI 301 "Specifications for Structural Concrete" and the Building Code, including testing procedures. See specifications and/or Architectural documents for formwork requirements. Installation shall adhere to ACI 301. Conduits and pipes of aluminum shall not be embedded in concrete construction.

See Architectural drawings for exact locations and dimensions of door and window openings in all concrete walls. See Mechanical drawings for size and location of mechanical openings through concrete walls. See Architectural drawings for all grooves, notches, chamfers, feature strips, color, texture, and other finish details at all exposed concrete surfaces, both cast-in-place and precast. See structural details for reinforcing around openings.

Contractor shall submit the proposed locations of construction joints to the Architect for acceptance before starting construction. Erico Lenton Formasaver (IAPMO-UES-ER-0129) may be used as an alternate to the roughened joint. All construction, control, and isolation joints for slabs on ground shall be in accordance with the typical details.

Concrete accessories and embedded items shall be coordinated with Architectural and all other Contract Documents and suppliers' drawings before placing concrete. Wet-setting of anchor rods, reinforcing, hardware, etc. is not allowed in concrete. Anchor rods, reinforcing, hardware, etc. shall be firmly tied in place prior to concrete placement.

Refer to Architectural documents for waterstops, damp proofing, and soil retaining wall drainage requirements at concrete and at concrete joints (construction joints, slab to wall joints, curb to slab joints, etc).

CURING AND FINISHES
Protect and cure freshly placed concrete per ACI 305.1 in hot conditions, ACI 306.1 in cold conditions, and ACI 308.1 " Specification for Curing Concrete". All exposed edges and corners shall have 3/4" chamfer, UNO. Concrete flatwork shall be sloped to provide positive drainage. Coordinate finish with Architectural contract documents.

At the time of application of finish materials or special treatment to concrete, moisture content of concrete shall conform to requirements in finish material specifications. Where vapor sensitive coverings are to be placed on slabs on grade, conform strictly to slab covering manufacturer's recommendations regarding vapor retarder and granular fill requirements below the slab.

CONCRETE CRACK MAINTENANCE
Cracking occurs in concrete structures due to inherent shrinkage, creep, and the restraining effects of walls and other structural elements. Most cracking due to shrinkage and creep will likely occur over the first two years of the life of the structure; further concrete movement due to variations in temperature may persist. Cracks that result in water penetration will need to be repaired to protect reinforcing. Other cracking may be repaired at the Owner's discretion for aesthetical reasons or performance of applied finishes. Prior to repairing cracks, a Structural Engineer should be consulted to provide direction on which cracks to repair and on whether observed cracks may affect the strength of the structure.

GROUTING STEEL BASE PLATES
Nonshrink grout for base plates shall be an approved nonshrink cementitious grout containing natural aggregates delivered to the job site in factory prepackaged containers requiring only the addition of water. The minimum 28-day compressive strength shall be at least twice the specified compressive strength of the underlying concrete, uno. Grouts shall meet ASTM C1107. Approved grouts include: Master Builders' "Master Flow 713", Sika Corporation's "Sikagrout 212", Burke Company's "Nonferrous Nonshrink Grout", W.R. Meadows CG-86 Construction Grade Grout, or approved equal. Grout shall be mixed, applied, and cured strictly in accordance with the manufacturer's published recommendations.

REINFORCEMENT IN CONCRETE AND MASONRY

REINFORCING STEEL
Reinforcing steel shall conform to ASTM A615 (including supplement S1), Grade 60, Fy = 60,000 psi.

PROCEDURES
Reinforcing steel shall be detailed (including hooks and bends) in accordance with ACI 315 "Details and Detailing of Concrete Reinforcement". Lap all reinforcement in accordance with "The Reinforcing Splice and Development Length Schedule" on these documents. If table is not provided, lap all reinforcing by 40 bar diameters. Provide corner bars at all wall and footing intersections.

Reinforcing steel shall be adequately supported to prevent displacement during concrete and grout placement. Bars shall be bent cold.

Bars partially embedded in concrete shall not be field bent, unless specifically so detailed or approved by the SER.

Mechanical connection of continuous reinforcing bar shall be used where shown on documents and may be substituted for lap splices if approved by the SER. Such connections shall develop at least 125% of the specified yield strength of the bar. Acceptable connectors shall be the Erico Lenton Standard Coupler (ER-0129), Dayton Superior Bar-Lock L Series (ER-0319), or approved equal.

Welding or tack welding of reinforcing bars to other bars or to plates, angles, etc, is prohibited, except where specifically approved by the SER. Where welding is approved, it shall be done by AWS/WABO-certified welders using E9018 or approved electrodes. Welding procedures shall conform to the requirements of AWS D1.4. Any Grade 60 reinforcing bars indicated on drawings to be welded shall conform to ASTM A706. Reinforcement complying with ASTM A615 (S1) may be welded only if material property reports indicating conformance with welding procedures specified in AWS D1.4 are submitted. Welding within 4" of cold bends in reinforcing steel is not permitted.

ANCHORAGE

Post-installed anchors or reinforcing bar shall not be installed without prior approval of Engineer of Record unless noted otherwise on the plans.

ADHESIVE ANCHORS
Adhesive anchors (threaded rods or reinforcing bar) specified on the drawings shall be installed using "HIT-HY 200" as manufactured by the Hilti Corporation. Install in strict accordance with ICC Report No. ESR-3187. Rods shall be ASTM F1554 Gr.55, unless noted otherwise. Special inspection of installation is required.

EXPANSION ANCHORS
Expansion anchors into concrete and concrete masonry units shall be "Kwik Bolt TZ" as manufactured by the Hilti Corporation. Install in strict accordance with ICC Report Number ESR-1917, including minimum embedment requirements. At concrete masonry or brick masonry applications, bolts shall be installed into fully-grouted cells. Substitutes proposed by contractor shall be submitted for review with ICC Reports indicating equivalent or greater load capacities. Special inspection of installation is required.

STRUCTURAL STEEL

REFERENCE STANDARDS
Steel construction shall conform to the latest editions of the AISC Specifications and Codes. "Specification for Structural Steel Buildings" ANSI/AISC 360, "Specification for Structural Joints Using High-Strength Bolts" AISC 348 and "Code of Standard Practice for Steel Buildings and Bridges" AISC 303 amended by the deletion of paragraph 4.4.1.

FABRICATORS
Fabricators for structural steel must have a quality assurance program in place. The quality assurance program must meet the requirements of one of the following methods:

- Registration in the Washington Association of Building Officials (WABO) Steel Fabricator Registration Program
- Participation in the AISC quality certification program, designated as an AISC Certified Plant, Category BU.
- Meeting the requirements of AISC 360 for structural steel buildings, chapter n and submitting plan documentation to the authority having jurisdiction, the Engineer of Record, and the Owner or Owner's designee. Quality assurance requirements of steel construction for wind and seismic (AISC 341, Chapter J) shall be included as reqired in Special Inspection section of the general notes, where applicable.

Fabricator for structural steel must be registered and approved to perform work without special inspection. At completion of fabrication, the fabricator shall submit a certificate of compliance to the building official stating that the work was performed in accordance with the approved construction documents.

FINISHING
The terms finish, finish column, finishing, milled, milled surface or milling are intended to include surfaces which have been accurately sawed or finished to a true plane as defined by AISC.

Grind surface value equal to or less than 1,000 as defined by ANSI B46.2 (4-inch and thinner).

CORROSION CONTROL
All steel noted as galvanized and any steel in ground contact or within 6-inches of grade shall be zinc-plated (galvanized) by the hot-dipped galvanic method (or pre-approved equivalent), except where such steel is to be fully encased in concrete. Furthermore, any surface where the coating has been removed or damaged must be brushed and re-coated in clean, dry field conditions with an approved zinc-based anti-corrosion coating except where such area is to be encased in concrete.

SHOP PAINTING
All steel to be shop primed. Steel fire proofed or encased with concrete need not be painted. All other steel shall be given one coat of shop paint, in accordance with Section M3 of the AISC "Specification" and Section 6.5 of the AISC "Code", unless noted otherwise. The surface preparation of the structural steel prior to painting shall be in accordance with the specific paint manufacturer's published recommendations. Structural joints and faying surfaces which are to be connected by means of welds or bolts shall not be painted until all welds and bolts are installed, inspected and approved. Paint shall be held back 3" from the faying surface or the joint to be welded.

STRUCTURAL STEEL MEMBERS
Structural Steel shall conform to the following requirements (unless otherwise shown on plans):

STRUCTURAL STEEL MEMBER SPECIFICATIONS TABLE

TYPE OF MEMBER	ASTM SPECIFICATION	Fy
PLATES	A36, GRADE 36	36 KSI
ANCHOR RODS (HOOKED, HEADED, THREADED & NUTTED)	F1554, GRADE 36 (UNO)	36 KSI
HEX NUTS	A563	-
FLAT CIRCULAR WASHERS	F436	-
STAINLESS STEEL PLATE	A304	31.2 KSI
STAINLESS STEEL ANCHOR RODS (HOOKED, HEADED, THREADED & NUTTED)	A304	31.2 KSI
STAINLESS STEEL HEX NUTS	F594	-
STAINLESS STEEL FLAT CIRCULAR WASHERS	F594	-

WELDING
All welding shall be in conformance with AISC and AWS standard and shall be performed by AWS/WABO certified welders using E70XX Electrodes in accordance with AWS D1.1. Only Prequalified welds, as defined by AWS, shall be used.

Shop drawings shall show all welding with AWS D1.4 symbols. Welds shown on the drawings are the minimum sizes. Increase weld size to AWS minimum sizes, based on plate thickness. Minimum welding shall be 3/16" UNO. Filler metal with a specified minimum Charpy V-notch toughness of 20 ft-lb at 0°F or lower shall be used at complete-joint-penetration groove welds. Welds designated as demand critical shall be made with filler metals meeting the requirements specified in AWS D1.8 clause 6.3.

Welding procedures shall be submitted to the Owner's testing agency for review prior to commencement of fabrication or erection. All complete-penetration welds shall be ultrasonically tested upon completion of the connection except Complete penetration welds on plates less than or equal to 1/4" shall be magnetic particle tested.

Field welds shown are Engineer's recommendation. Contractor is responsible for actual welds used to support specific means and methods.

WELDING GALVANIZED STEEL
Welding of galvanized steel shall conform to aws specification d-19.0. welded areas of galvanized steel shall be touched up in conformance with astm a-780.

BID SET

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STRUCTURAL ENGINEER
08/26/2026

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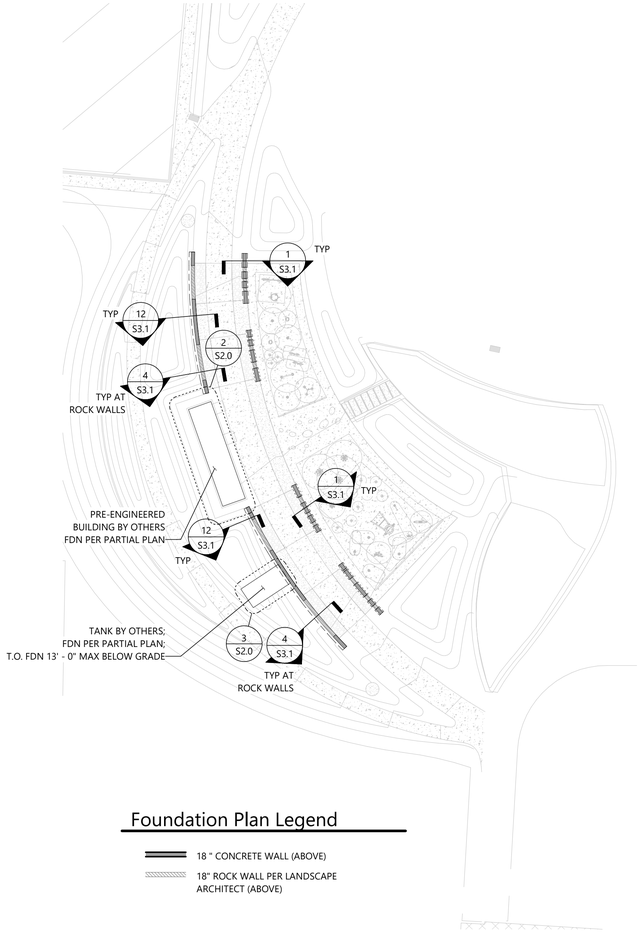
REV #	DATE OF REV

LO PROJECT #	22-182-01
DRAWN BY	JG, JK
CHECKED BY	KR
DATE	OCTOBER 28, 2026

SHEET NAME
STRUCTURAL GENERAL NOTES

SHEET # SHEET ____ OF ____

S1.3



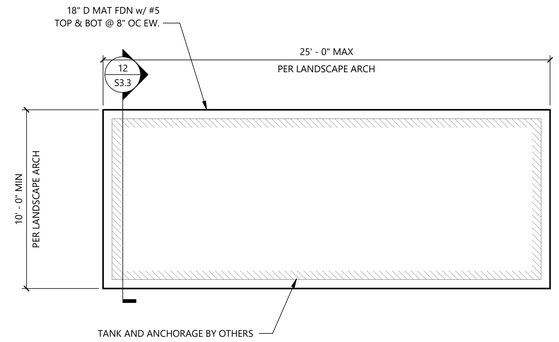
Foundation Plan Legend

- 18 " CONCRETE WALL (ABOVE)
- 18" ROCK WALL PER LANDSCAPE ARCHITECT (ABOVE)

PROJECT NORTH

1 Overall Foundation Plan

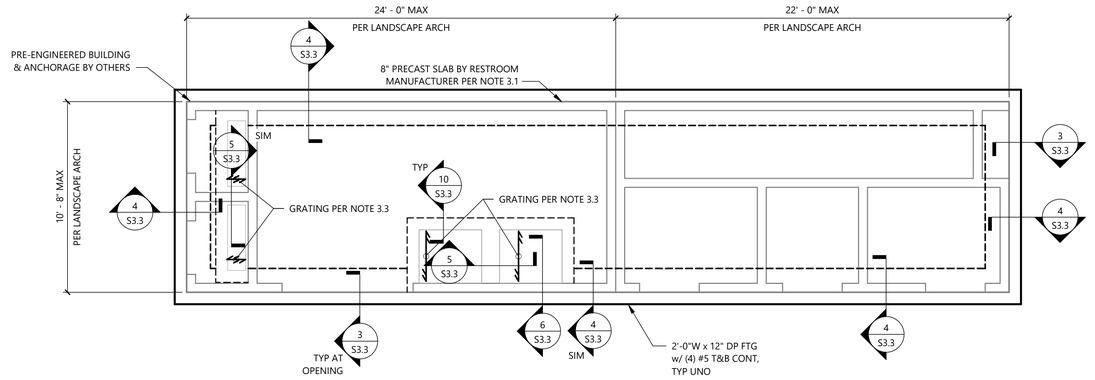
SCALE: 1/32" = 1'-0"



PROJECT NORTH

3 Partial Enlarged Tank Foundation Plan

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



PROJECT NORTH

2 Partial Enlarged Building Foundation Plan

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

FOUNDATION PLAN NOTES

1. GENERAL

1.1. ELEVATION PER LANDSCAPE ARCHITECT UNO.

[-X'-X"] INDICATES ELEVATION AT TOP OF FOOTING, MEASURED IN FEET.

FOOTING ELEVATIONS SHOWN ARE FOR CONTRACTOR CONVENIENCE AND BIDDING ONLY. FINAL ELEVATIONS SHALL BE DETERMINED BY ON-SITE VERIFICATION BY SOILS ENGINEER, BUT SHALL NOT BE SHALLOWER THAN THOSE SHOWN ON THIS PLAN.
REFER TO STRUCTURAL GENERAL NOTES FOR ADDITIONAL INFORMATION.

1.2. REFER TO LANDSCAPE ARCHITECT DRAWINGS FOR DIMENSIONS NOT SHOWN.

1.3. REFER TO MECHANICAL DRAWINGS FOR LOCATIONS OF ALL MECHANICAL EQUIPMENT.

1.4. REFER TO STRUCTURAL GENERAL NOTES FOR ADDITIONAL REQUIREMENTS.

2. FOUNDATIONS

2.1. EXCAVATE, BACKFILL, AND PREPARE SOILS AS REQUIRED PER STRUCTURAL GENERAL NOTES AND GEOTECHNICAL REPORT.

2.2. REFER TO MECHANICAL AND CIVIL DRAWINGS FOR LOCATIONS OF ALL UNDERSLAB PIPING. FOOTINGS MAY BE LOWERED TO AVOID CONFLICTS WITH PIPING.

3. RESTROOM FOUNDATION

3.1. RESTROOM SLAB ON GRADE SHALL BE 8" THICK PRECAST PER RESTROOM MANUFACTURER.

3.2. PROVIDE VAPOR BARRIER AND BASE COURSE BELOW SLAB AT INTERIOR SPACES PER GEOTECH REPORT.

3.3. SUMP PIT LOCATIONS PER MECHANICAL.
SUMP PIT LID FLOOR SHALL BE 1 1/2" DURAGRATE GRATING WITH 1 1/2" SQUARE MESH BY STRONGWELL OR APPROVED EQUAL.

BID SET

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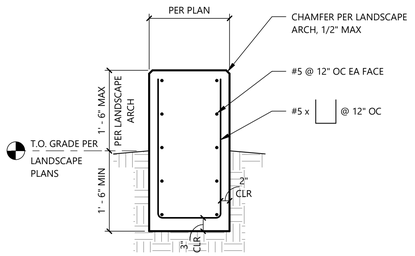
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SHEET #	SHEET ____ OF ____

S2.0



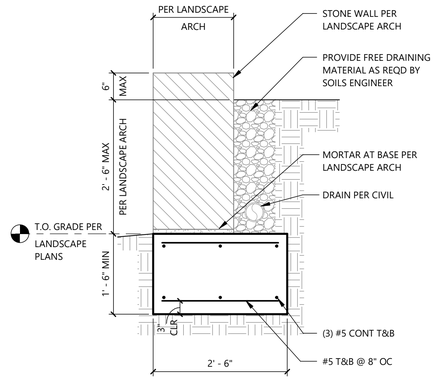
1 Section
SCALE: 3/4" = 1'-0"

CONCRETE COVER FOR REINFORCING STEEL

Reinforcing Bar Location	Minimum Concrete Cover
Unformed surfaces cast against and permanently exposed to earth	3"
Formed surfaces exposed to earth or weather (#6 bars and larger)	2"
Formed surfaces exposed to earth or weather (#5 bars and smaller)	1 1/2"
Columns and beams w/ bars enclosed in stirrups, ties or spiral reinforcement	1 1/2"
Slabs, joists and interior faces of walls (#11 bars and smaller)	3/4"
2-hour and 3-hour slabs	(Refer to plan notes)
Clear spacing between longitudinal bars in columns and boundary elements	1 1/2" or 1.5db
Clear spacing between parallel bars in a layer	1" or db
Clear spacing between (2) or more parallel layers	1"

Notes:
1. Where a thickness of cover required for fire protection is greater than that specified in this table, the greater thickness shall be used.
2. Where two values are shown, the greater shall be used.

2 Concrete Cover for Reinforcing Steel
NTS



4 Rock Retaining Wall
SCALE: 3/4" = 1'-0"

REINFORCING BAR LAP SPLICE & DEVELOPMENT LENGTH DIAGRAMS

The following conditions must be met in order to use the Reinforcing Bar Lap Splice & Development Length Tables

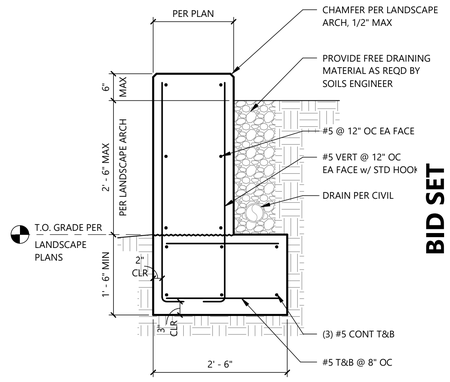
	Lap Splices	Straight Bar Development	Hooked Bar Development
CLASS 1: Bars enclosed by column ties or beam stirrups	db CLR (MIN); EDGE OF CONC; COL TIES OR BM STIRRUPS; REINF BAR; SPLICED BAR	db CLR (MIN); EDGE OF CONC; COL TIES OR BM STIRRUPS; REINF BAR	2 1/2" CLR (MIN); Ldh (MIN); STD HOOK; 2" CLR (MIN)
CLASS 2: No enclosure	2db CLR (MIN); db CLR; EDGE OF CONC; REINF BAR; SPLICED BAR	2db CLR. (MIN); db CLR; EDGE OF CONC; REINF BAR	
Where conditions for Classes 1 & 2 are not met	Multiply lengths shown in schedule by 1.5	Multiply lengths shown in schedule by 1.5	

Notes:
1. All bars shall be developed & all splices lapped per ACE 318 for tension, uno. Table may be used where conditions meet criteria noted in diagrams.
2. Tables are applicable for normal weight concrete, only.
3. Top bars are horizontal bars with more than 12" depth of concrete cast below them. (wall horizontal reinforcement is exempt).
4. Where bars of different size are lap spliced, splice length shall be the larger of:
   a. Developed length of larger bar
   b. Splice length of smaller bar
5. Where minimum straight bar development length cannot be achieved, use with standard hook.
6. Refer to concrete cover table for minimum concrete cover requirements.

9 Reinforcing Bar Lap Splice & Development Length Tables
Scale: 1 1/2" = 1'-0"

REINFORCING BAR LAP SPLICE & DEVELOPMENT LENGTH TABLE
f'c = 4,000 psi Grade 60 Reinforcing

Bar Size	Min Lap Splice Lengths (Ls)		Min Straight Bar Development Lengths (Ld)		Min Hooked Bar Embedment Lengths (Ldh)
	Top Bars	Other Bars	Top Bars	Other Bars	
#3	25"	19"	19"	15"	8"
#4	32"	25"	25"	19"	10"
#5	41"	31"	31"	24"	12"
#6	49"	37"	37"	29"	15"
#7	71"	54"	54"	42"	17"
#8	81"	62"	62"	48"	19"
#9	91"	70"	70"	54"	22"
#10	102"	79"	79"	61"	25"
#11	114"	87"	87"	67"	27"



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

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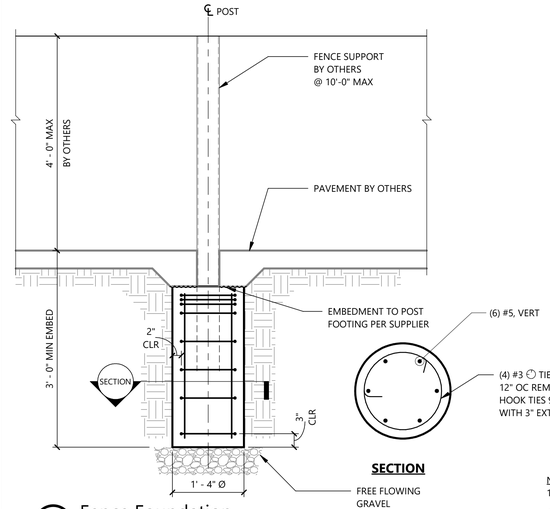
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STRUCTURAL CONCRETE DETAILS

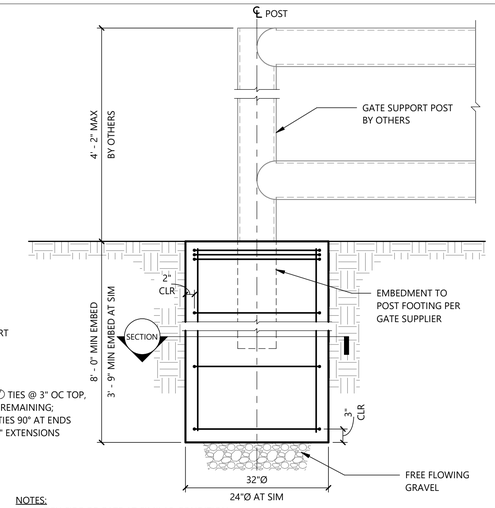
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S3.1

BID SET

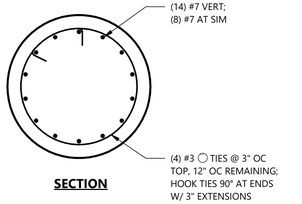


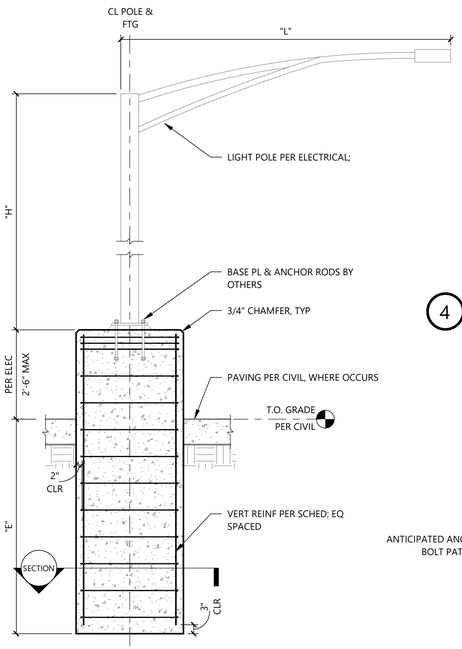
1 Fence Foundation
Scale: 3/4" = 1'-0"



NOTES:
1. LATCH SIDE OF GATE AT SIMILAR CONDITION.

2 Typical Gate Post Footing
Scale: 3/4" = 1'-0"





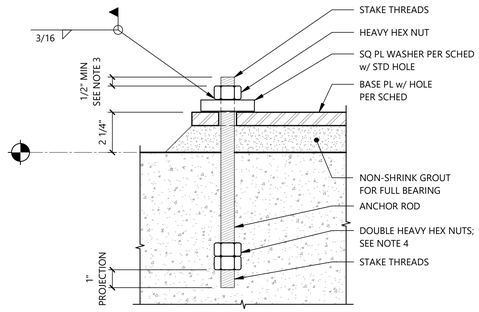
LIGHT POLE FOUNDATION SCHEDULE

DESCRIPTION	"H" MAX	"D"	"E"	"L" MAX	VERTICAL REINFORCEMENT	MAX LIGHT FIXTURE EPA
TYPICAL	23' - 2"	30"	4' - 3"	2' - 4"	(8) #7	1.25 SQ. FT.

7 Typical Light Pole Foundation
Scale: 1/2" = 1'-0"

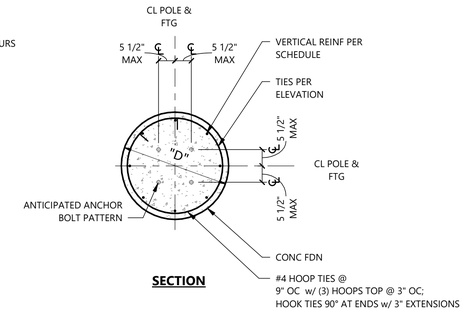
ANCHOR ROD TABLE

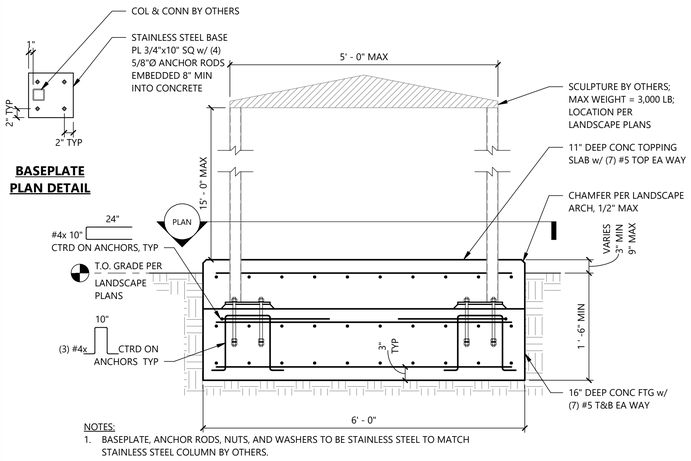
ANCHOR ROD DIAMETER	MAX HOLE DIAMETER	MIN WASHER DIMENSION	MIN WASHER THICKNESS
5/8"	1 3/16"	2"	1/4"



NOTES:
1. AT CONTRACTOR'S OPTION, ADDITIONAL LEVELING NUTS AND PLATE WASHERS MAY BE FURNISHED.
2. VERIFY SUFFICIENT THREAD ENGAGEMENT TO DEVELOP STRENGTH OF BOLT.
3. TIGHTEN ANCHOR RODS SNUG TIGHT AND TACK WELD TOP NUT TO ROD TO PREVENT LOOSENING.
4. AT CONTRACTOR'S OPTION, IN LIEU OF DOUBLE NUT SHOWN, IT IS ACCEPTABLE TO PROVIDE SINGLE NUT WITH TACK WELD ON THE UNDERSIDE OF THE NUT TO THE ANCHOR ROD, IN INSTANCES WHERE THE ANCHOR ROD AND THE NUT ARE OF COMPATIBLE AND WELDABLE STEEL GRADES.

4 Typical Anchor Rod
Scale: 3" = 1'-0"



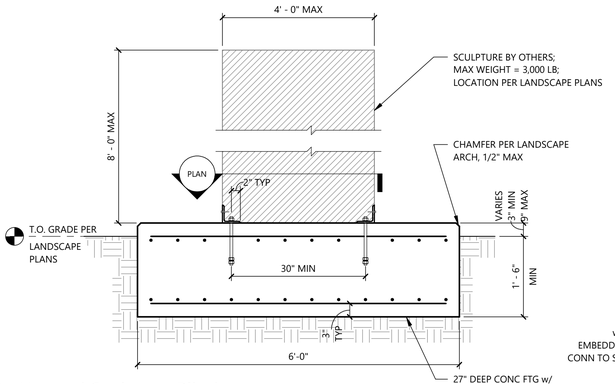


NOTES:
1. BASEPLATE, ANCHOR RODS, NUTS, AND WASHERS TO BE STAINLESS STEEL TO MATCH STAINLESS STEEL COLUMN BY OTHERS.

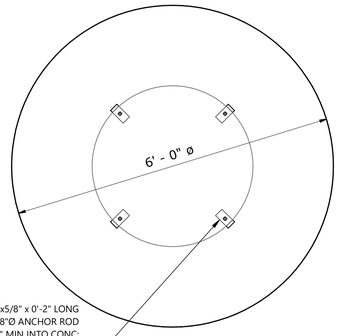
5 Salmon Sculpture Plinth
Scale: 3/4" = 1'-0"



PLAN DETAIL



9 Upward Sculpture Plinth
Scale: 3/4" = 1'-0"



PLAN DETAIL

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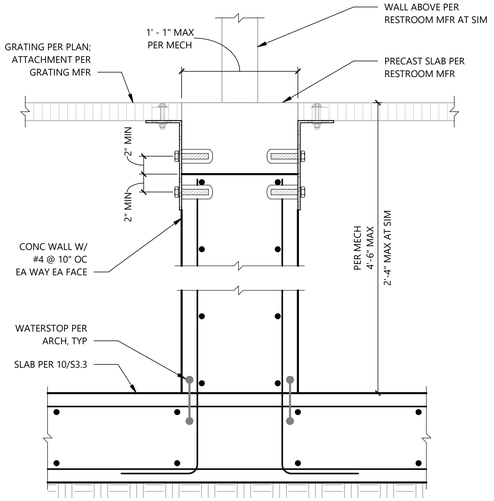
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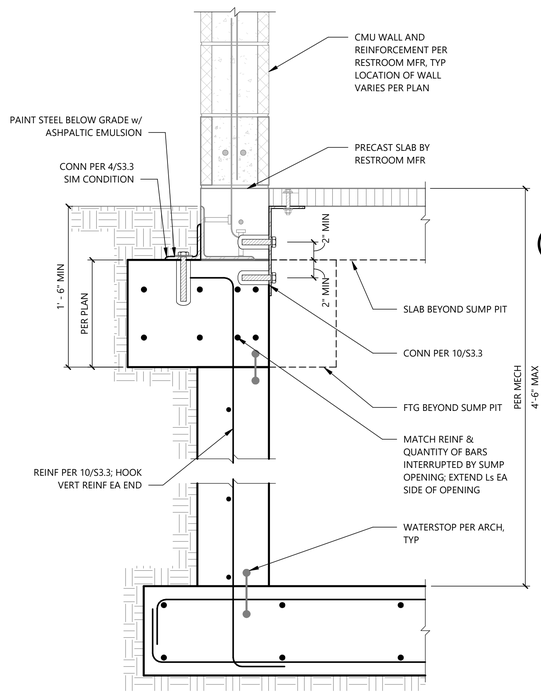
S3.2

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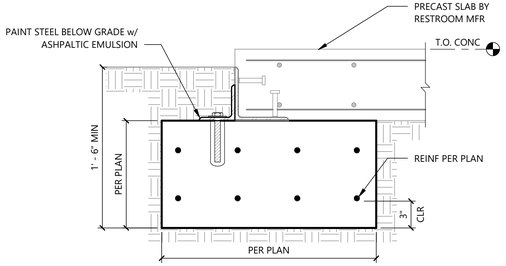
NOTES:
1. SEE 10/S3.3 FOR INFORMATION NOT SHOWN.

5 Section
Scale: 1 1/2" = 1'-0"



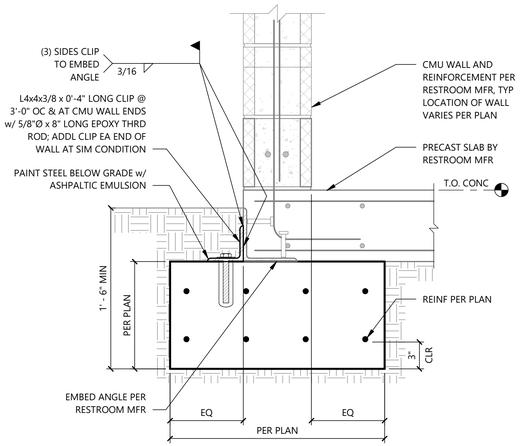
NOTES:
1. SEE 10/S3.3 AND 4/S3.3 FOR INFORMATION NOT SHOWN.

6 Section
Scale: 1 1/2" = 1'-0"

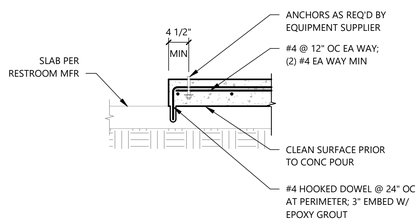


NOTES:
1. SEE 4/S3.3 FOR INFORMATION NOT SHOWN

3 Typical Restroom Footing
Scale: 1 1/2" = 1'-0"

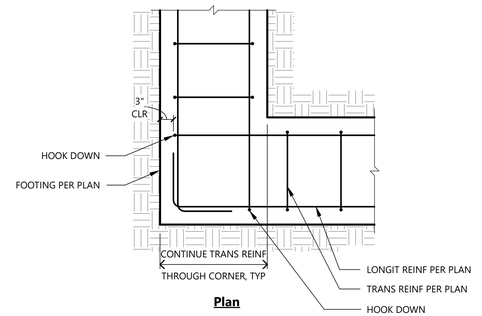


4 Typical Restroom Footing
Scale: 1 1/2" = 1'-0"



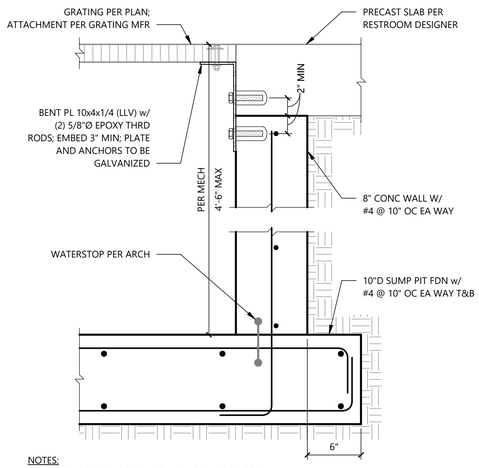
NOTES:
1. CONTRACTOR AVOID DAMAGING EXISTING REINFORCEMENT.

7 Typical Housekeeping Pad
Scale: 3/4" = 1'-0"



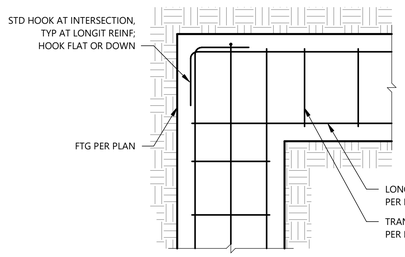
Plan

8 Typical Monolithic Footing
Scale: 3/4" = 1'-0"

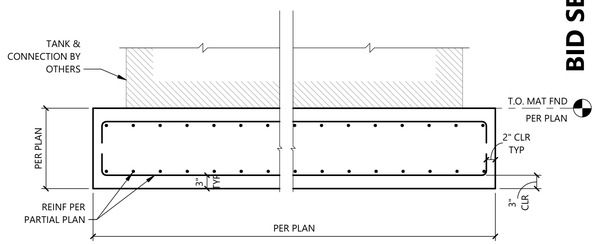


NOTES:
1. DO NOT DAMAGE EXISTING REINFORCING IN CONCRETE.

10 Typical Sump Pit
Scale: 1 1/2" = 1'-0"



11 Typical Footing Intersections Plan Detail
NTS



12 Mat Foundation Section
Scale: 3/4" = 1'-0"

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S3.3

SYMBOL LEGEND

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	COLD WATER PIPING	TE	TEMPERATURE SENSOR
	HOT WATER PIPING	TI	TEMPERATURE GAUGE
	HOT/TEMPERED WATER CIRCULATION PIPING	PE	PRESSURE SENSOR
	WASTE PIPING		POINT OF CONNECTION TO EXISTING
	VENT PIPING		DEMOLITION SCOPE OF WORK
	PIPE BRANCH SIDE CONNECTION		STRAINER
	PIPE UP / PIPE DOWN		STRAINER W/ BLOWDOWN VALVE & 3/4" HOSE CONNECTION
	PIPE BRANCH TOP CONNECTION		UNION
	PIPE BRANCH BOTTOM CONNECTION		DRAIN/BLOWDOWN VALVE W/ 3/4" HOSE CONNECTION
	CAP END OF PIPE	M	METER
	PIPE OR DUCT BREAK (GRAPHIC ONLY - CONTINUOUS PIPE/DUCT)		FUNNEL DRAIN
	PIPE SLOPE (DOWNWARD IN DIRECTION OF ARROW)		FLOOR & FUNNEL DRAIN
	FLUSH CLEANOUT OR SURFACE CLEANOUT		FLOOR DRAIN
	CLEANOUT		AUTOMATIC OR MANUAL AIR VENT
	VENT THROUGH ROOF		REDUCER
	BUTTERFLY VALVE		CIRCUIT SETTER
	PRESSURE REDUCING VALVE		BALANCING VALVE
	CHECK VALVE	BFP	BACKFLOW PREVENTER ASSEMBLY
	TEMPERATURE & PRESSURE RELIEF VALVE		PUMP
	BALL VALVE		TEMPERING VALVE
SV	2-WAY SOLENOID VALVE		HOSE BIBB
	FLOW DIRECTION		CIRCULATION PUMP
FS	FLOW SWITCH		DRAIN VALVE W/ 3/4" HOSE CONNECTION
PI	PRESSURE GAUGE	FM	FLOW METER
LV	LEVEL CONTROL FLOAT SWITCH		

ABBREVIATIONS LIST

°F	DEGREES FAHRENHEIT
AMP	AMPERES
ASJ	ALL SERVICE JACKET
BFP	BACKFLOW PREVENTER
BWV	BACKWATER VALVE
CF	CHEMICAL FEEDER
CFM	CUBIC FEET PER MINUTE
CP	CONTROL PANEL
CO2	CARBON DIOXIDE
CW	COLD WATER
DC	DOUBLE CHECK
DEG	DEGREE (FAHRENHEIT)
DIA	DIAMETER
DISCH	DISCHARGE
DN	DOWN
DT	DEBRIS TANK
EA	EXHAUST AIR
EC	ELECTRICAL CONTRACTOR
ESP	EXTERNAL STATIC PRESSURE
F	FAHRENHEIT
FCO	FLUSH CLEANOUT
FD	FLOOR DRAIN
FM	FLOW METER
FS	FLOW SWITCH
FT	FEET
FV	FLOAT VALVE
GAL	GALLON
GC	GENERAL CONTRACTOR
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GPD	GALLONS PER DAY
GPF	GALLONS PER FLUSH
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
HDPE	HIGH DENSITY POLYETHYLENE
HP	HORSEPOWER
HW	HOT WATER
ID	INSIDE DIAMETER
IN	INCH
INDW	INDIRECT WASTE
KW	KILOWATT
LB	POUND
LBS	POUNDS
LV	LEVEL CONTROL FLOAT SWITCH
MAX	MAXIMUM
MCA	MINIMUM CIRCUIT AMPACITY
MFR	MANUFACTURER
MIN	MINIMUM
MOCP	MAXIMUM OVERCURRENT PROTECTION
MPV	MULTIPORT VALVE
MRT	MEAN RADIANT TEMPERATURE
MSP	MOTOR SURGE PROTECTOR
N/A	NOT APPLICABLE
NO	NUMBER
NPSHR	NOMINAL PUMP SUCTION HEAD REQUIRED
ORP	OXIDATION-REDUCTION POTENTIAL
PD	PRESSURE DROP
PH	PHASE
PI	PRESSURE GUAGE
PRESS	PRESSURE
PSI	POUNDS PER SQUARE INCH
PVC	POLYVINYL CHLORIDE
QTY	QUANTITY
RP	REDUCED PRESSURE
RPM	REVOLUTIONS PER MINUTE
SQ FT	SQUARE FEET
TEFC	TOTALLY ENCLOSED FAN-COOLED
TEMP	TEMPERATURE
TW	TEMPERED WATER
TYP	TYPICAL
UV	ULTRAVIOLET
V	VENT
VFD	VARIABLE FREQUENCY DRIVE
VI	VACUUM GUAGE OR COMPOUND PRESSURE/VACUUM GAUGE
VTR	VENT THROUGH ROOF
W.C.	WATER COLUMN
W/	WITH
W/FT	WATT PER FOOT
W	WATT
WFR	WATER FEATURE RETURN
WFS	WATER FEATURE SUPPLY

BASIS OF DESIGN

1. TYPE: RECIRCULATING SPRAY PARK
2. SPRAY PAD SURFACE AREA (NOT INCLUDING WALKOFF): 1,880 SF (NORTH), 2,166 SF (SOUTH)
3. DESIGN FEATURE FLOW RATE: 210
4. DESIGN USERS PER DAY: 100
5. WATER STORAGE:
   - 5.1. TYPE: UNDERGROUND FIBERGLASS TANK
   - 5.2. NOMINAL VOLUME: 5,000
6. MAIN DRAINS
   - 6.1. LOCATION/TYPE: NORTH ZONE
     - 6.1.1. QUANTITY: 2
     - 6.1.2. MINIMUM REQUIRED OPEN AREA PER COVER:53.43 SQ IN
     - 6.1.3. DESIGN OPEN AREA PER COVER: 401.65 SQ IN
     - 6.1.4. DESIGN FLOW PER COVER: 250 GPM (INCLUDING 27 GPM RAIN FLOW)
     - 6.1.5. DESIGN VELOCITY AT COVER: 0.20 FPS
     - 6.1.6. SUMP TYPE: MANUFACTURED
   - 6.2. LOCATION/TYPE: SOUTH ZONE
     - 6.2.1. QUANTITY: 2
     - 6.2.2. MINIMUM REQUIRED OPEN AREA PER COVER: 47.35 SQ IN
     - 6.2.3. DESIGN OPEN AREA PER COVER: 763.43 SQ IN
     - 6.2.4. DESIGN FLOW PER COVER: 222 GPM (INCLUDING 44 GPM RAIN FLOW)
     - 6.2.5. DESIGN VELOCITY AT COVER: 0.09 FPS
     - 6.2.6. SUMP TYPE: MANUFACTURED
7. FILTRATION
   - 7.1. TYPE: SAND
   - 7.2. MINIMUM SQ FT AREA REQUIRED: 14.00 SF
   - 7.3. DESIGN SQ FT AREA: 14.12 SF
   - 7.4. DESIGN APPLICATION RATE: 14.87 GPM/SF
8. WATER TREATMENT
   - 8.1. SANITIZER: LIQUID CHLORINE
   - 8.2. PH CONTROL: GAS CO2
   - 8.3. SUPPLEMENTARY TREATMENT: UV
9. FILL & MAKEUP
   - 9.1. SOURCE: DOMESTIC CW
   - 9.2. FILL CONNECTION SIZE: 2"
   - 9.3. FILL CONTROL: MANUAL VALVE
   - 9.4. MAKEUP CONNECTION SIZE: 1"
   - 9.5. MAKEUP FLOW CONTROL: SOLENOID VALVE
   - 9.6. DESIGN FILL TIME (HOURS): 83 MIN
10. WATER DISCHARGE
    - 10.1. DISCHARGE DURING OPERATION: SANITARY SEWER
    - 10.2. DISCHARGE DURING OFF-HOURS: STORM DRAIN
    - 10.3. DISCHARGE CONTROL: AUTOMATIC VALVE AT DIVERTER DT-1
11. PIPING MATERIALS
    - 11.1. FEATURE SUPPLY PIPING: SCHEDULE 80 PVC W/ GLUED FITTINGS OR HDPE W/ FUSION WELDED FITTINGS
    - 11.2. DRAIN PIPING: SCHEDULE 80 PVC W/ GLUED FITTINGS

GENERAL NOTES

1. PROVIDE SYSTEM STARTUP, TESTING, & ADJUSTMENTS OF INSTALLED SYSTEMS TO MEET PERFORMANCE REQUIREMENTS INDICATED IN THE CONTRACT DOCUMENTS.
2. CONTRACTOR SHALL SUPPORT SYSTEM COMMISSIONING AND SHALL COORDINATE WITH PROJECT COMMISSIONING AGENT.
3. CONTRACTOR SHALL PROVIDE ALL DOCUMENTATION REQUIRED TO SUPPORT SYSTEM COMMISSIONING.
4. CONTRACTOR SHALL OBTAIN AND PAY FOR ALL REQUIRED PERMITS AND CONSTRUCTION FEES. FURNISH COPIES OF ALL CONSTRUCTION PERMITS, FINAL APPROVED PERMITS, AND SIMILAR DOCUMENTS TO OWNER DOCUMENTING COMPLIANCE WITH CODE REQUIREMENTS.
5. LOCATE ALL VALVES, TRAPS, TEST PORTS, DAMPERS, CONTROLS, CLEANOUTS, ETC. TO BE ACCESSIBLE FOR MAINTENANCE, ADJUSTMENT, & TESTING. PROVIDE ACCESS PANELS FOR ALL CONCEALED DEVICES. ACCESS PANEL LOCATIONS SHALL BE COORDINATED WITH ARCHITECT.
6. THE FIRST FIGURE OF DUCT SIZE CALLOUTS INDICATES DIMENSION OF FACE SHOWN OR INDICATED. DUCT SIZES ARE NET INSIDE DIMENSIONS. PROVIDE ANY APPLICABLE DUCT LINING AND INSULATION PER THESE PLANS AND SPECIFICATIONS. NOMINAL OUTER DUCT DIMENSIONS ARE NET INSIDE DIMENSIONS PLUS 2X INSULATION THICKNESS.
7. DUCTWORK SHALL BE 2.0" PRESSURE CLASS UNLESS OTHERWISE NOTED ON THESE DRAWINGS.
8. CONSTRUCT DUCTWORK ACCORDING TO WASHINGTON STATE ENERGY CODE SECTION C403.10.1.
9. PROVIDE TURNING VANES IN ALL MITERED RECTANGULAR DUCT ELBOWS & TEES.
10. PROVIDE MANUAL BALANCING DAMPERS ON ALL NEW AND MODIFIED DUCT BRANCHES TO AIR INLETS & OUTLETS. LOCATE DAMPERS AS CLOSE TO MAIN TRUNK DUCT CONNECTION AS POSSIBLE.
11. PROVIDE MOTORIZED DAMPERS ON OUTDOOR AIR SUPPLY, AND EXHAUST OPENINGS, AND RELIEF OUTLETS. DAMPERS SHALL HAVE A MAXIMUM LEAKAGE RATE OF 4 CFM PER SQUARE FOOT AT 1" W.C. DAMPERS SHALL BE INTERLOCKED WITH FAN SERVING SPACE.
12. RELIEF GRAVITY DAMPERS SHALL HAVE A MAXIMUM LEAKAGE RATE OF 20 CFM PER SQUARE FOOT AT 1" W.C. DAMPERS SMALLER THAN 24" IN EITHER DIRECTION SHALL HAVE A MAXIMUM LEAKAGE RATE OF 40 CFM PER SQUARE FOOT AT 1" W.C.
13. PIPING & DUCTWORK SHALL BE ROUTED SO AS NOT TO OBSTRUCT ACCESS OR CAUSE TRIPPING OR OTHER HAZARDS.
14. PIPING & DUCTWORK SHALL BE ROUTED SO AS TO MAINTAIN CODE-REQUIRED CLEARANCES FOR ELECTRICAL EQUIPMENT, ADA ACCESSIBILITY, AS WELL AS MAINTAINING CLEAR ACCESS AT ALL DOORS, WINDOWS, & OTHER ARCHITECTURAL FEATURES IN THE BUILDING.
15. PROVIDE 5 W/FT HEAT TRACE FOR ALL CW PIPING IN UNHEATED SPACES. MECHANICAL ROOM SHALL BE CONSIDERED AN UNHEATED SPACE. NOTE THAT CW PIPING SUPPLYING SPRAY PARK SYSTEMS THAT MAY BE DRAINED FOR WINTERIZATION SHALL NOT BE REQUIRED TO BE HEAT TRACED.
16. INSULATE PIPING PER WASHINGTON STATE ENERGY CODE SECTION C403.10.4.
17. TOTAL STATIC PRESSURE NOTED IN SCHEDULES SHALL BE ASSUMED TO INCLUDE DUCT SYSTEM, TERMINAL UNITS, FILTERS, COILS, ETC.
18. AIR INLET & OUTLET SIZES SHOWN ON PLANS ARE NECK SIZES. PROVIDE ADDITIONAL PANS, HARDWARE, ETC., REQUIRED TO INSTALL AIR INLETS & OUTLETS IN CEILING SYSTEM.
19. ALL PRESSURES LISTED ARE GAGE PRESSURES UNLESS OTHERWISE NOTED.
20. PROVIDE SEISMIC SUPPORT, BRACING, AND ATTACHMENTS FOR DUCTWORK, PIPING, AND EQUIPMENT.
21. COORDINATE ALL WATER FEATURE WORK WITH OTHER TRADES TO INSURE PROPER AND ADEQUATE INTERFACE OF THEIR WORK WITH THE WORK SHOWN ON THESE DOCUMENTS. CONTRACTOR SHALL PROVIDE COORDINATED SHOP DRAWINGS FOR APPROVAL PRIOR TO FABRICATION AND INSTALLATION.
22. ALL ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH NFPA 70 STANDARDS AND LOCAL REQUIREMENTS, INCLUDING ARTICLE 680.
23. ALL FIELD WIRING SHALL REQUIRE AN ELECTRICAL PERMIT AND SHALL BE PERFORMED BY A LICENSED ELECTRICIAN.
24. SPRAY PARK CONTRACTOR SHALL HIRE AN ELECTRICAL SUBCONTRACTOR TO PROVIDE DESIGN AND INSTALLATION OF ALL REQUIRED ELECTRICAL INTERLOCKS (LINE- AND LOW-VOLTAGE) REQUIRED FOR SPRAY PARK SYSTEMS OPERATION.
25. ALL NEW ELECTRICAL ENCLOSURES (INCLUDING THOSE PROVIDED WITH EQUIPMENT OR SYSTEMS) IN SPRAY PARK MECHANICAL ROOMS OR CHEMICAL STORAGE ROOMS SHALL BE NEMA 4X RATED.
26. SPRAY PARK WORK SHALL BE COMPLETED IN ACCORDANCE WITH WAC 246-260 AND THE REQUIREMENTS OF PUBLIC HEALTH & SAFETY – KING COUNTY AND THE WASHINGTON STATE DEPARTMENT OF HEALTH.
27. A SHORT DASH IN A SCHEDULE TABLE CELL INDICATES THAT THE COLUMN HEADING IS NOT USED OR NOT APPLICABLE TO THAT SCHEDULED ITEM.
28. WHERE CONTROLS ARE DEMOLISHED, REMOVE WIRING BACK TO NEAREST CONTROL PANEL OR JUNCTION BOX. REMOVE ACCESSIBLE CONDUIT, JUNCTION BOXES, ETC.

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REV #		DATE OF REV

DRAWN BY: KT

CHECKED BY: JB/ZK

DATE: OCTOBER 21, 2026

SHEET NAME: LEGEND, ABBREVIATIONS LIST, AND GENERAL NOTES

SHEET #: M0.1

SPRAY PARK EQUIPMENT SCHEDULE (NOTES)

NOTES:
1. VALVE SHALL BE POWERED & CONTROLLED BY SPRAY FEATURE CONTROL PANEL CP-1.
2. PROVIDE WITH DRYDEN AQUA AFM-NG FILTER MEDIA.
3. VALVE SHALL BE POWERED & CONTROLLED BY CHEMISTRY CONTROLLER CP-2.
4. PROVIDE WITH PRESSURE RELIEF VALVE & PRESSURE GAUGE.
5. PROVIDE WITH 2 GROUNDING RINGS & 4 NSF GASKETS PER FLOWMETER SYSTEM.
6. FEATURE ACTUATOR SHALL BE PROVIDED BY MANUFACTURER OF SPRAY PARK CONTROLLER PANEL CP-1.
7. PROVIDE WITH HYDRAULIC OR PNEUMATIC ASSIST FOR MANWAY LID.
8. PROVIDE WITH WALL-MOUNT REMOTE FLOWMETER DISPLAY.
9. PROVIDE WITH HASTELLOY SENSING ELECTRODES.
10. ELECTRICAL POWER FOR UV TREATMENT UNIT IS SUPPLIED BY UV CONTROL PANEL CP-3.
11. CHEMICAL STORAGE TANKS ARE SHOWN FOR REFERENCE ONLY. THEY ARE PROVIDED BY OWNER'S CHEMICAL SUPPLIER AND ARE NOT PART OF THIS CONTRACT.
12. AMP RATING LISTED IS MANUFACTURER'S LISTED INTERNAL BREAKER SIZE NOT ACTUAL AMPERAGE LOAD.
13. NORMALLY OPEN/HELD-CLOSED FLOAT SWITCH FOR USE WITH WATER LOSS PREVENTION SYSTEM.
14. INSTALLATION SHALL BE SUITABLE FOR HS20 TRAFFIC RATING, INCLUDING BUT NOT LIMITED TO BURIAL DEPTH, SLAB COVER, & ANCHORAGE.
15. OUTLET PROVIDED FOR CONNECTION OF THIS EQUIPMENT SHALL BE DEDICATED SINGLE RECEPTACLE, SWITCHED VIA RELAY IN CHEMICAL CONTROLLER CP-2 FOR ON/OFF CONTROL.
16. DIVERTER ACTUATOR IS POWERED BY FEATURE CONTROL PANEL CP-1.
17. PROVIDE AS PART OF FACTORY-ASSEMBLED WATER FEATURE MANIFOLD SKID.
18. FLOW SENSOR SHALL BE COMPATIBLE WITH & CONNECTED TO CONTROLLER CP-5 AS PART OF WATER LOSS PREVENTION SYSTEM.
19. NORMALLY CLOSED FLOAT SWITCH FOR USE WITH WATER LOSS PREVENTION SYSTEM.
20. POWER SUPPLY FOR THIS EQUIPMENT SHALL BE GFCI PROTECTED. REFER TO ELECTRICAL DOCUMENTS FOR GFCI PROVISIONS.
21. PROVIDE WITH FLOW CELL ASSEMBLY INCLUDING FLOW SWITCH, ORP SENSOR, & PH SENSOR.
22. PROVIDE WITH PRESSURE GAUGE AND AIR HOSE FITTING.
23. PROVIDE WITH MATCHING RECESSED/FLANGED BASE AND FOOTING FOR ACTIVATOR BOLLARD MOUNTING.
24. PROVIDE WITHOUT MANUFACTURER'S STANDARD INLINE DISCHARGE STRAINER.
25. PROVIDE WITH FULL-HEIGHT FIBERGLASS SAFETY LADDER ATTACHED TO INTERIOR OF TANK AND MANWAY.
26. PROVIDE WITH COMPLETE ANCHORING SYSTEM INCLUDING ANCHORING STRAPS & HARDWARE, & CONCRETE SLAB ANCHOR (OR DEADMAN ANCHORS) SIZED TO PREVENT TANK FLOATATION.
27. PROVIDE (1) EXTRA STRAINER BASKET FOR EACH STRAINER.
28. PROVIDE WITH 24VDC TRANSFORMER TO POWER FLOWMETER SYSTEM (SENSOR & REMOTE DISPLAY).
29. POWERED BY CHEMISTRY CONTROLLER CP-2. PROVIDE WITH INTERCONNECTING WIRING BETWEEN SENSOR & CONTROLLER.
30. PROVIDE WITH INTEGRATED TOUCH PAD FOR WATER FEATURE ACTIVATION.
31. BACKWATER VALVE SHALL BE SHIPPED LOOSE AND FIELD-INSTALLED INSIDE TANK AS PART OF OVERFLOW ASSEMBLY.
32. PROVIDE WITH SIGNET 9900 REMOTE MOUNTED DIGITAL READOUT/TOTALIZING UNIT AND INTERCONNECTION CABLE.
33. PROVIDE WITH AASHTO HS-20 RATED 4X4' LID ASSEMBLY, WITH DIAMOND PLATE NON-SLIP TREAD AND FACTORY APPLIED THERMION NON-SLIP FINISH.
34. PROVIDE WITH 3X ZOELLER MECHANICAL FLOAT SWITCHES.
35. PROVIDE WITH NEMA 4X ENCLOSURE.
36. PROVIDE WITH AFM-NG ACTIVATED GREEN GLASS FILTER MEDIA.
37. PROVIDE WITH VANDAL-PROOF LOCKDOWN HARDWARE FOR GRATING.
38. PROVIDE WITH ZURN P6-HPP 6" HEELPROOF, ADA-COMPLIANT HDPE GRATING, 17.4 SQ IN OPEN AREA PER FOOT, CLASS A LOAD RATING.
39. PROVIDE ETHERNET CONNECTION FOR CONTROLLER.

SPRAY PARK EQUIPMENT SCHEDULE

SYMBOL	MANUFACTURER	MODEL	SERVICE	DESCRIPTION/PERFORMANCE DATA	ELECTRICAL						STARTER				NOTES
					KW	AMP	MCA	MOCP	VOLT	PHASE	VFD	MFR	EC	N/A	
BWV-1	SPEARS	-	TANK OVERFLOW	4" PVC BACKWATER VALVE	-	-	-	-	-	-	-	-	-	-	31
MH-1	OLDCASTLE	-	SANITARY SEWER DRAINAGE	4' ID, 13' MINIMUM DEPTH, WA-DOT TYPE 2 CONCRETE MANHOLE	-	-	-	-	-	-	-	-	-	-	33
CF-1	BECS	CO2 FEEDER	CHEMISTRY CONTROL	ELECTRONIC CO2 FEEDER	-	0.07	-	-	120	1	-	-	-	-	15,35
CP-1	VORTEX	MAESTRO	SPRAYPARK CONTROL	PROGRAMMABLE SPRAY FEATURE CONTROL PANEL	-	6.00	-	-	120	1	-	-	-	-	6,20,35,39
CP-2	IPS	M920	WATER TREATMENT	CHEMISTRY CONTROL PANEL	-	10.00	-	-	120	1	-	-	-	-	20,21,35,39
CP-3	NUVONICS	UV SWIM	WATER TREATMENT	UV SYSTEM CONTROL PANEL	3.50	32.00	-	35	480	3	-	-	-	-	10,12,35
CP-4	ZOELLER	10-1083	SANITARY SEWER DRAINAGE	SIMPLEX SUMP PUMP CONTROL PANEL	-	11.20	-	-	480	3	-	X	-	-	22,34,35
CT-1	-	-	CHLORINE SUPPLY	POLY DRUM, 53 GALLON LIQUID CHLORINE TANK	-	-	-	-	-	-	-	-	-	-	11
CT-2	-	-	ACID SUPPLY	POLY DRUM, 53 GALLON LIQUID ACID TANK	-	-	-	-	-	-	-	-	-	-	11
CT-3	-	-	CO2 SUPPLY	CO2 GAS CYLINDER, 40 LB CAPACITY	-	-	-	-	-	-	-	-	-	-	11
DT-1	VORTEX	-	SPRAYPAD DRAIN	DIVERTER & DEBRIS TRAP ASSEMBLY, 8" INLET/OUTLET, 4" DIVERTER OUTLET	-	-	-	-	120	1	-	-	-	-	16
F-1	PENTAIR	TRITON-2 TR140 C3	WATER FILTRATION	SAND FILTER, 7.06 SQ FT FILTRATION AREA, 106 GPM MAX, 6 PSI MAX PRESSURE DROP, 3" CONNECTIONS	-	-	-	-	-	-	-	-	-	-	2,4
F-2	PENTAIR	TRITON-2 TR140 C3	WATER FILTRATION	SAND FILTER, 7.06 SQ FT FILTRATION AREA, 106 GPM MAX, 6 PSI MAX PRESSURE DROP, 3" CONNECTIONS	-	-	-	-	-	-	-	-	-	-	2,4
FCV-1	-	-	BACKWASH FLOW CONTROL	3" FULL PORT PVC BALL VALVE	-	-	-	-	-	-	-	-	-	-	
FCV-2	-	-	BACKWASH FLOW CONTROL	3" FULL PORT PVC BALL VALVE	-	-	-	-	-	-	-	-	-	-	
FM-1	SEAMETRICS	IMAG 4700R-040H-F1-P-D1-X-XX	FEATURE LOOP	4" ELECTROMAGNETIC FLOWMETER SENSOR W/ REMOTE DISPLAY	-	0.12	-	-	120	1	-	-	-	-	5,8,9,26
FM-2	H2FLOW	FV-3	FILTER DISCHARGE	3" PVC INLINE FLOWMETER, 90-220 GPM FLOW RANGE	-	-	-	-	-	-	-	-	-	-	
FM-3	H2FLOW	FV-3	FILTER DISCHARGE	3" PVC INLINE FLOWMETER, 90-220 GPM FLOW RANGE	-	-	-	-	-	-	-	-	-	-	
FV-1	HAYWARD	WC1600ES	PUMP SUCTION	6" WAFER CHECK VALVE WITH FLANGE KIT	-	-	-	-	-	-	-	-	-	-	
LV-1	BECS	-	LEVEL CONTROL	ELECTRONIC LEVEL SENSOR	-	-	-	-	-	-	-	-	-	-	29
MD-1	ZURN	Z-886-VP-HPB	SPRAYPAD DRAIN	6" WIDE TRENCH DRAIN, 6" BOTTOM OUTLETS	-	-	-	-	-	-	-	-	-	-	37,38
MMV-1	-	-	FEATURE LOOP	MANIFOLD MASTER VALVE, 4" PVC BUTTERFLY VALVE W/ MOTORIZED ACTUATOR	-	-	-	-	120	1	-	-	-	-	1
MPV-1	PRAHER	SM-30-AOB	FILTER/BACKWASH VALVE	3" MANUAL MULTIPORT VALVE, 6.5 PSI MAX PD	-	-	-	-	-	-	-	-	-	-	
MPV-2	PRAHER	SM-30-AOB	FILTER/BACKWASH VALVE	3" MANUAL MULTIPORT VALVE, 6.5 PSI MAX PD	-	-	-	-	-	-	-	-	-	-	
MV-1	BUCKNER	VB SERIES	MAKEUP WATER	1" BRASS SOLENOID VALVE	-	-	-	-	24	1	-	-	-	-	3
BPV-1	BUCKNER	VB SERIES	FEATURE LOOP BYPASS	3" BRASS SOLENOID VALVE	-	-	-	-	24	1	-	-	-	-	
S-1	PADDOCK	5706-06	FEATURE LOOP	HAIR & LINT STRAINER, 6" INLET & 6" DISCHARGE CONNECTIONS, 50 PSI RATED, CLEAR ACRYLIC LID, 316 STAINLESS 1/8" MESH, OFFSET INLET/OUTLET CONFIGURATION	-	-	-	-	-	-	-	-	-	-	27
S-2	SPEARS	YS23S8-040CL	FEATURE LOOP	INLINE WYE STRAINER, 4" INLET & 4" DISCHARGE CONNECTIONS, CLEAR PVC BODY, STAINLESS STEEL #12 MESH, FLANGED CONNECTIONS	-	-	-	-	-	-	-	-	-	-	27
S-3	SPEARS	YS2AP8-005CL	CHEMISTRY CONTROL	INLINE WYE STRAINER, 1/2" INLET & DISCHARGE CONNECTIONS, CLEAR PVC BODY, PVC #20 MESH SCREEN, TRUE-UNION CONNECTIONS	-	-	-	-	-	-	-	-	-	-	27
SG-1	-	SIGHT GLASS	FILTER BACKWASH	SIGHT GLASS, 3" CLEAR PVC PIPE SECTION	-	-	-	-	-	-	-	-	-	-	
UV-1	NUVONICS	UV SWIM U-150-4C	WATER TREATMENT	UV TREATMENT UNIT, 4" INLET/OUTLET,3.5 KW MEDIUM PRESSURE UV LAMP	3.50	-	-	-	480	3	-	-	-	-	10,12,24
WFA-1	VORTEX	VOR-0612 - ACTIVATOR NO.1	FEATURE ACTIVATION	WATER FEATURE ACTIVATOR BOLLARD	-	-	-	-	-	-	-	-	-	-	6,23,30
WFA-2	VORTEX	VOR-0612 - ACTIVATOR NO.1	FEATURE ACTIVATION	WATER FEATURE ACTIVATOR BOLLARD	-	-	-	-	-	-	-	-	-	-	6,23,30
WFM-1	VORTEX	-	FEATURE LOOP	4" STAINLESS STEEL FEATURE MANIFOLD, 25 1-1/2" VALVES	-	-	-	-	-	-	-	-	-	-	17,22
WST-1	VORTEX	-	WATER STORAGE	WATER STORAGE TANK, 5000 GALLON CAPACITY, 8' DIA.	-	-	-	-	-	-	-	-	-	-	7,14,25,26

SPRAY PARK PUMP SCHEDULE

SYMBOL	MANUFACTURER	MODEL	SERVICE	TYPE	FLOW		HEAD	NPSHR	RPM	ELECTRICAL					STARTER				MOUNTING	WEIGHT	NOTES
					GPM	GPD	(FT)	(FT)		HP	W	AMP	VOLT	PHASE	VFD	MFR	EC	N/A		(LBS)	
PP-1	NORMBLOCK	MULTI 65-250	SPRAY SYSTEM	CENTRIFUGAL	210	-	115	-	3450	10.00	-	-	480	3	X	-	-	-	BASE	-	2,3,6,7,8
PP-2	STENNER	45M5	CHLORINE	METERING	-	45	57	-	-	-	-	1.70	120	1	-	-	-	X	BASE	-	1,4,5
PP-3	STENNER	45M5	ACID	METERING	-	45	57	-	-	-	-	1.70	120	1	-	-	-	X	BASE	-	1,4,5

NOTES:
1. PLUG IN ELECTRICAL CONNECTION.
2. CLOSE COUPLED SELF-PRIMING PUMP CONFIGURATION.
3. PUMP SUPPLIED WITHOUT HAIR & LINT STRAINER.
4. ELECTRICAL OUTLET POWERING THIS EQUIPMENT SHALL BE SINGLE RECEPTACLE, SWITCHED VIA RELAY IN CHEMICAL CONTROLLER CP-3 FOR ON/OFF CONTROL.
5. GFCI BREAKER REQUIRED AT ELECTRICAL PANEL FOR CIRCUIT FEEDING THIS EQUIPMENT.
6. PROVIDE WITH TEFC MG-1 INVERTER-READY MOTOR.
7. PROVIDE WITH SPECK 6" SUCTION FLANGE KIT.
8. PROVIDE WITH SHAFT GROUNDING KIT.

VFD SCHEDULE

SYMBOL	MANUFACTURER	MODEL	EQUIPMENT SERVED	ELECTRICAL			WEIGHT	NOTES
				HP	VOLT	PHASE	(LBS)	
VFD-1	H2FLOW	EF-C-31-12-4	PUMP PP-1	10.00	480	3	-	1,2

NOTES:
1. NEMA 12 CONSTRUCTION
2. PROVIDE WITH DEDICATED AQUATICS CONTROLLER MODULE.

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REV #		DATE OF REV

DRAWN BY: JB

CHECKED BY: JB/ZK

DATE: OCTOBER 21, 2026

SHEET NAME: SCHEDULES

SHEET #: M0.2

PLUMBING PUMP SCHEDULE

SYMBOL	MANUFACTURER	MODEL	SERVICE	TYPE	FLOW		HEAD	NPSHR	RPM	ELECTRICAL					STARTER				MOUNTING	WEIGHT	NOTES
					GPM	GPD	(FT)	(FT)		HP	W	AMP	VOLT	PHASE	VFD	M/FR	EC	N/A		(LBS)	
SP-1	ZOELLER	F189	SANITARY SEWER	SUBMERSIBLE	-	-	-	-	-	2.00	-	-	480	3	-	-	-	X	SUMP	97	1,2,3
SP-2	ZOELLER	F189	SANITARY SEWER	SUBMERSIBLE	100	-	40	-	-	2.00	-	-	480	3	-	-	-	X	SUMP	97	1,2,3

NOTES:
1. GFCI BREAKER REQUIRED AT ELECTRICAL PANEL FOR CIRCUIT FEEDING THIS EQUIPMENT.
2. PUMP SHALL BE POWERED & CONTROLLED BY CONTROL PANEL CP-4.
3. PROVIDE WITH COMPLETE RAIL MOUNTING SYSTEM INCLUDING BREAKAWAY FITTINGS, LIFT CHAIN, & 316 STAINLESS STEEL SLIDE RAILS.

BACKFLOW PREVENTER SCHEDULE

SYMBOL	MANUFACTURER	MODEL	LINE SIZE (IN)	SERVICE	TYPE		WATER PRESSURE (PSI)		WEIGHT (LBS)	NOTES
					RP	DC	INLET	OUTLET		
BFP-1	WATTS	LF009-QT-S	0.75	DOMESTIC CW	X	X	72	58	6	1,2
BFP-2	WATTS	LF009-NRS-S-FDA	3.00	SPRAYPAD SYSTEM	X	X	72	60	34	1,2
BFP-3	WATTS	LF009-NRS-S-FDA	3.00	IRRIGATION	X	X	72	60	34	1,2

NOTES:
1. PROVIDE WITH WYE-STRAINER, ISOLATION VALVES, AIRGAP FITTING & TEST PORTS.
2. PROVIDE WITH SEPARATE LINE-SIZE PRESSURE REDUCING VALVE.

ELECTRIC WATER HEATER SCHEDULE

SYMBOL	MANUFACTURER	MODEL	TYPE	CAPACITY (GAL)	DISCHARGE TEMP (DEG F)	RECOVERY		ELECTRICAL			NOTES
						GPH	TEMP RISE	VOLT	PHASE	KW	
WH-1	EEMAX	EX160T2 EE	TANKLESS	-	84	192.73	34	280	1	16	1, 2

NOTES:
1. EMERGENCY FIXTURE-SPECIFIC WATER HEATER.
2. PROVIDE WITH NEMA 4X6 ENCLOUSURE.

PLUMBING FIXTURE SCHEDULE

SYMBOL	FIXTURE	MANUFACTURER	MODEL	PLUMBING CONNECTIONS (IN)						FLOW		ELECTRICAL			MOUNTING	NOTES
				WASTE	INDW	VENT	HW	CW	TW	GPM	GPF	VOLT	PH	W		
FCO	FLOOR CLEANOUT	ZURN	Z1400	3.00	-	2.00	-	-	-	-	-	-	-	-	FLOOR	
FD-1	FLOOR DRAIN	SIOUX CHIEF	832-35PNR	3.00	-	2.00	-	-	-	-	-	-	-	-	FLOOR	3,5
FFD-1	FUNNEL FLOOR DRAIN	SIOUX CHIEF	832-35PNR	3.00	-	2.00	-	-	-	-	-	-	-	-	FLOOR	2,3,5
P-1A	HOSE BIBB	ZURN	195XL	-	-	-	-	0.75	-	-	-	-	-	-	PIPE	3
P-1B	HOSE BIBB	ZURN	Z1320-CL-WC	-	-	-	-	0.75	-	-	-	-	-	-	WALL	
P-2	EMERGENCY EYEWASH	ACORN	S0410	2.00	-	1.50	-		0.50	3.50	-	-	-	-	WALL	4
P-3	STANDPIPE DRAIN	-	-	6.00	-	2.00	-	-	-	-	-	-	-	-	FLOOR	1

NOTES:
1. CONTRACTOR FABRICATED. PROVIDE WITH 10" STANDPIPE SECTION AND BELLMOUTH FITTING AT TOP, WITH TOP 36" ABOVE FINISHED FLOOR.
2. PROVIDE 2" FUNNEL DRAIN, WITH (MINIMUM) 3" TOP OPENING.
3. PROVIDE WITH VANDAL-RESISTANT HARDWARE.
4. PROVIDE WITH TRAP & TAILPIECE FOR DRAIN CONNECTION.
5. PROVIDE FLOOR DRAIN WITH PVC DRAIN BODY AND NICKEL-BRONZE DRAIN TOP.

WATER METER SCHEDULE

SYMBOL	MANUFACTURER	MODEL	SERVICE	DESCRIPTION	ELECTRICAL						NOTES
					KW	AMP	MCA	MOCP	VOLT	PHASE	
WM-1	BADGER	M2000-3"	IRRIGATION	ELECTROMAGNETIC METER	-	-	-	-	120	1	1
WM-2	BADGER	M2000-3"	SPRAYPARK	ELECTROMAGNETIC METER	-	-	-	-	120	1	1

NOTES:
1. PROVIDE WITH MANUFACTURER'S REMOTE READ HEAD AND ANTENNA, INCLUDING CONNECTING CABLES.

PIPE INSULATION SCHEDULE

APPLICATION	TEMP RANGE (°F)	INSULATION CONDUCTIVITY		NOMINAL PIPE SIZE (IN)					TYPE	NOTES
		K FACTOR	MRT (°F)	<1"	1" - 1-1/4"	1-1/2" - 3"	4" - 8"	>8"		
CW (RIGID PIPING, ABOVE GRADE)	40-60	0.21-0.27	75	0.5	0.5	1.0	1.0	-	FIBERGLASS W/ ASJ	1,2,3
CW (RIGID PIPING, BELOW GRADE)	40-60	0.21-0.27	75	0.5	0.5	1.0	1.0	-	FLEXIBLE ELASTOMERIC	1
HW (FLEXIBLE PIPING, ABOVE GRADE)	105-140	0.21-0.28	100	1.0	1.0	1.5	-	-	FLEXIBLE ELASTOMERIC	1,2
HW (RIGID PIPING, ABOVE GRADE)	105-140	0.21-0.28	100	1.0	1.0	1.5	-	-	FIBERGLASS W/ ASJ	1,2
SANITARY SEWER TRAPS	40-60	0.21-0.27	75	-	-	1.0	1.0	-	FLEXIBLE ELASTOMERIC	1,3

NOTES:
1. INSULATION THICKNESSES PER 2018 WASHINGTON STATE ENERGY CODE TABLE C403.2.9.
2. PROVIDE WITH PVC JACKETING IN ALL EXPOSED LOCATIONS (UTILITY ROOMS, STORAGE ROOMS, ETC.).
3. INSULATE ALL HEAT-TRACED PIPING AND TRAPS PER WASHINGTON STATE ENERGY CODE C404.6.

PIPING SCHEDULE

APPLICATION	SIZE RANGE (IN)	LOCATION	MATERIALS	JOINTS/COUPLINGS	FITTINGS	PIPE IDENTIFICATION				NOTES
						TYPE	LETTERING	BACKGROUND	FLOW ARROWS	
CW	1/2" - 2"	INTERIOR (CONCEALED)	PEX-A, ASTM F877, SDR-9	PEX EXPANSION RING, ASTM F1960	LEAD-FREE BRASS OR BRONZE, ENGINEERED PLASTIC	SELF ADHESIVE	WHITE	GREEN	-	1,3
CW	1/2" - 2"	INTERIOR (EXPOSED)	PEX-A, ASTM F877, SDR-9, RIGID PIPE	PEX EXPANSION RING, ASTM F1960	LEAD-FREE BRASS OR BRONZE, ENGINEERED PLASTIC	SELF ADHESIVE	WHITE	GREEN	-	1,3
CW	ALL	ALL	COPPER TUBE, ASTM B88, TYPE L	SOLDER, THREADED, PRESS FIT	CAST BRONZE, CAST COPPER ALLOY, WROUGHT COPPER ALLOY	SELF ADHESIVE	WHITE	GREEN	-	1,2,4
SANITARY DWV	ALL	INTERIOR	PVC, SCHEDULE 40, SOLID WALL, ASTM D-2665	GLUED, ASTM D-2665	PVC, SCHEDULE 40	SELF ADHESIVE	WHITE	GREEN	-	
SANITARY DWV, SPRAY PARK	ALL	INTERIOR	PVC, SCHEDULE 40, SOLID WALL, ASTM D-2665	GLUED, ASTM D-2665	PVC, SCHEDULE 40	SELF ADHESIVE	WHITE	GREEN	-	
SANITARY DWV	ALL	EXTERIOR	PVC, SCHEDULE 40, SOLID WALL, ASTM D-2665	GLUED, ASTM D-2665	PVC, SCHEDULE 40	SELF ADHESIVE	WHITE	GREEN	-	
SANITARY DWV, SPRAY PARK	ALL	EXTERIOR	PVC, SCHEDULE 40, SOLID WALL, ASTM D-2665	GLUED, ASTM D-2665	PVC, SCHEDULE 40	SELF ADHESIVE	WHITE	GREEN	-	
SANITARY DWV	ALL	DIRECT BURIED	PVC, SCHEDULE 40, SOLID WALL, ASTM D-2665	GLUED, ASTM D-2665	PVC, SCHEDULE 40	-	-	-	-	
SANITARY DWV, EXCEPT SPRAY PARK	ALL	ALL	CAST IRON, ASTM A888	HUBLESS, ASTM A888/CISPI 301	CAST IRON, ASTM A888/CISPI 301	SELF ADHESIVE	WHITE	GREEN	-	

NOTES:
1. REFER TO INSULATION SCHEDULE FOR PIPING INSULATION.
2. PROVIDE DI-ELECTRIC UNIONS OR FITTINGS FOR PIPE CONNECTIONS BETWEEN DISSIMILAR METALS.
3. PRE-INSULATED PIPING SYSTEMS SHALL BE ACCEPTABLE.
4. ACCEPTABLE PRESS-FIT SYSTEMS SHALL INCLUDE VIEGA RIGID OR NIBCO PRESS.

AIR INLETS AND OUTLETS SCHEDULE

SYMBOL	MANUFACTURER	MODEL	SERVICE	MOUNTING TYPE	STYLE	MATERIAL	NOTES
EG-1	TITUS	50F	EXHAUST	DUCT	EGGCRATE	ALUMINUM	1,2,3

NOTES:
1. FURNISH ALL PRODUCTS FROM A SINGLE MANUFACTURER.
2. PROVIDE ALUMINUM MANUAL AIR DAMPER AT EACH GRILLE.
3. PROVIDE WITH MANUFACTURER'S ANODIZED ALUMINUM FINISH.

FAN SCHEDULE

SYMBOL	MANUFACTURER	MODEL	AREA SERVED	CFM	ESP (IN WC)	RPM	SOUND POWER (SONES)	MOUNTING	ELECTRICAL				WEIGHT (LBS)	NOTES
									HP	W	VOLT	PHASE		
EF-1	CANARM	VK250	MECHANICAL ROOM	550	0.50	2604	-	INLINE	-	293	120	1	-	1,2,3,4
EF-2	CANARM	VK150	CHEMICAL STORAGE ROOM	250	0.38	2907	-	INLINE	-	113	120	1	-	1,2,3,4
EF-3	CANARM	VK150	CHEMICAL STORAGE ROOM	250	0.38	2907	-	INLINE	-	113	120	1	-	1,2,3,4

NOTES:
1. PROVIDE WITH FAN SPEED CONTROL & DUCT-MOUNTED BACKDRAFT DAMPER. FAN SPEED CONTROL SHALL BE FURNISHED TO ELECTRICAL CONTRACTOR FOR INSTALLATION.
2. PROVIDE WITH WALL-MOUNT MOTOR RATED ON/OFF SWITCH FOR FAN CONTROL. SWITCH SHALL BE FURNISHED TO THE ELECTRICAL CONTRACTOR FOR INSTALLATION.
3. PROVIDE ALUMINUM OR PVC BACKDRAFT DAMPER.
4. PROVIDE WITH STAINLESS STEEL FASTENERS.

DUCTWORK SYSTEMS SCHEDULE

SYSTEM/APPLICATION	LOCATION	PRESSURE CLASS	SEALING	MATERIALS	CONSTRUCTION	FITTINGS	FLEX CONNECTIONS/FLEX DUCT	SEISMIC IMPORTANCE FACTOR	NOTES
SUPPLY/RETURN/EXHAUST/OUTSIDE AIR; LOW PRESSURE	INSIDE CONDITIONED SPACE	2"	SMACNA CLASS A	GALVANIZED DUCT; GAUGE AND REINFORCEMENT SHALL BE SMACNA OR BETTER RECTANGULAR MAY BE S+DRIVE ROUND MAY BE SNAPLOCK	GALVANIZED DUCT; GAUGE AND REINFORCEMENT SHALL BE SMACNA OR BETTER RECTANGULAR MAY BE S+DRIVE ROUND MAY BE SNAPLOCK	FABRICATED OR PREMANUFACTURED CL RADIUS OF 1.0 DIA ON DUCTS LARGER THAN 24" SPIN-IN OR AIR-TIGHT TAKEOFF BRANCHES OK	5-FOOT MAX. LENGTH FLEX AT EQUIPMENT CONNECTIONS TO COMPLY WITH SMACNA APPLICABLE PRESSURE CLASS	1.0	1,2,3,4,5,6,7,8,9

NOTES:
1. ALL DUCTWORK TO BE FABRICATED IN ACCORDANCE WITH SMACNA DUCT CONSTRUCTION STANDARDS (DCS).
2. ALL DIMENSIONS SHOWN ON PLANS ARE INSIDE CLEAR DIMENSIONS.
3. PROVIDE TURNING VANES FOR ALL MITERED (NON-RADIUSED) FITTINGS.
4. USE DOUBLE WIDTH VANES UNLESS OTHERWISE NOTED ON THE DRAWINGS.
5. FOLLOW BASIC SMACNA LEVEL A GUIDELINES FOR CLEANLINESS DURING CONSTRUCTION.
6. VOLUME DAMPERS SHALL BE SHOP FABRICATED PER SMACNA, OR MAY BE AS MANUFACTURED BY GREENHECK OR APPROVED EQUAL.
7. CONTROL DAMPERS SHALL BE GREENHECK VCD-23 CLASS 1A LOW-LEAKAGE TYPE, MATCHED TO DUCT/LOUVER SIZE, WITH EXTERNAL ACTUATORS.
8. PROVIDE SEISMIC SUPPORT, BRACING, & RESTRAINTS, DESIGNED TO USE SMACNA HAZARD LEVEL A SEISMIC DESIGN CRITERIA.
9. REFER TO DUCT INSULATION & LINING SCHEDULE FOR INSULATION & LINING REQUIREMENTS.

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DATE: OCTOBER 21, 2026
SHEET NAME: SCHEDULES
SHEET #: M0.3

SEQUENCE OF OPERATIONS

1. GENERAL

1.1. FULL OPERATIONAL PUMP SPEEDS SHALL BE SET DURING INITIAL SYSTEM BALANCING. PUMP(S) SHALL NOT BE SET TO OPERATE IN MOTOR SERVICE FACTOR.

1.2. FLOW RATES SHALL BE MONITORED/VERIFIED BY FLOW METER(S).

1.3. SPRAY FEATURE SUPPLY PIPING SHALL BE CONFIGURED TO GRAVITY DRAIN FROM WATER FEATURE BACK TO PIPE TRENCH AT MECHANICAL ROOM.

1.4. BYPASS VALVE BPV-1 SHALL BE OPENED OR CLOSED BY FEATURE CONTROL PANEL CP-1 TO MAINTAIN PRESSURE SETPOINT AT WATER FEATURE MANIFOLD AND MAINTAIN SYSTEM RECIRCULATION WHEN SPRAY PARK IS NOT ACTIVE.

1.5. CHEMISTRY CONTROL PANEL CP-2 SHALL MONITOR & ADJUST WATER CHEMISTRY LEVELS TO MAINTAIN WATER QUALITY UNDER ALL MODES OF OPERATION EXCEPT OFF-SEASON (WHEN SYSTEM IS DRAINED).

1.6. IF CHEMISTRY PANEL CP-2 DETECTS WATER CHEMISTRY VALUES OUTSIDE WAC 246-260 REQUIREMENTS, ALL FEATURE SOLENOID VALVES WILL SHUT OFF, MANIFOLD MASTER VALVE WILL SHUT, AND SYSTEM WILL CONTINUE TO RECIRCULATE WATER FOR 15 MINUTES OR UNTIL WATER CHEMISTRY IS WITHIN WAC 246-260 REQUIREMENTS. IF WATER CHEMISTRY IS NOT WITHIN SPEC WITHIN 45 MINUTES, CHEMISTRY CONTROLLER SHALL TRIGGER A GENERAL ALARM, AND SPRAYPARK SHALL BE DISABLED UNTIL WATER CHEMISTRY CONTROL IS RESTORED.

1.7. CHEMICAL FEED SYSTEMS SHALL BE CONFIGURED & PROGRAMMED SO THAT CHEMICAL FEEDS WILL BE LOCKED OUT IF THERE IS NO WATER FLOW IN THE RECIRCULATION SYSTEM.

1.8. MANIFOLD MASTER VALVE SHALL BE CONFIGURED TO OPEN ONLY WHEN THERE IS AN ACTIVE SEQUENCE CALLING FOR WATER FLOW TO THE SPRAY PAD, OR WHEN AN AUTO-FLUSH SEQUENCE IS ENABLED. MASTER VALVE SHALL CLOSE WHEN THERE ARE NO ACTIVE FEATURE CYCLES.

1.9. DEBRIS TRAP SHALL BE CONFIGURED OPERATE IN "RETURN" MODE (WATER FLOWING TO STORAGE TANK) ONLY WHEN A WATER FEATURE CYCLE IS ACTIVATED. DEBRIS TRAP SHALL RETURN TO "DIVERTER" MODE (WATER FLOWING TO STORM DRAIN) WHEN THERE ARE NO ACTIVE WATER FEATURE CYCLES (I.E. WATER FEATURE CYCLES ACTIVATED BY A USER ON THE SPRAY PAD, OR PRE-PROGRAMMED SEQUENCES SUCH AS IN-SEASON, SPRAY PARK PRE-TREATMENT SEQUENCE).

1.10. ULTRAVIOLET WATER TREATMENT SYSTEM UV-1 SHALL BE INTERLOCKED WITH WATER FEATURE CONTROL PANEL CP-1. UV SYSTEM SHALL BE DISABLED IF WATER FEATURE CONTROL PANEL IS OFF OR IS OTHERWISE DISABLED.

1.11. PROVIDE ALL COMPONENTS & PROGRAMMING TO INTERLOCK VARIABLE FREQUENCY DRIVE VFD-1 WITH WATER FEATURE CONTROL PANEL CP-1.

2. FLOW RATES

2.1. GENERAL: ALL FLOW RATES SHALL BE ADJUSTABLE BY THE END USER VIA THE TOUCHSCREEN ON WATER FEATURE CONTROL PANEL CP-1.

2.2. MINIMUM RECIRCULATION FLOW RATE: 167 GPM

2.2.1. UNDER NO CONDITIONS SHALL MINIMUM RECIRCULATION RATE BE REDUCED BELOW CODE MINIMUM RECIRCULATION RATE FOR THIS SYSTEM OF 167 GPM.

2.3. MAXIMUM RECIRCULATION FLOW RATE: 210 GPM

2.4. DESIGN RECIRCULATION RATE SETPOINT: 200 GPM

2.5. MAXIMUM FEATURE FLOW RATE: 210 GPM

2.6. MINIMUM FEATURE FLOW RATE: 167 GPM

2.7. BACKWASH FLOW RATE: 105-120 GPM

3. PUMP SPEED CONTROL (PP-1)

3.1. VFD-1 SHALL CONTROL PUMP PP-1. VFD-1 SHALL RECEIVE ENABLE/DISABLE SIGNAL FROM WATER FEATURE CONTROL PANEL CP-1.

3.2. PUMP PP-1 SHALL OPERATE CONTINUOUSLY 24 HOURS PER DAY DURING PARK OPERATIONAL SEASON.

3.3. UV SYSTEM SHALL BE ACTIVATED 24 HOURS PER DAY DURING PARK OPERATIONAL SEASON.

3.4. WHEN WATER FEATURES ARE ACTIVATED PUMP VFD-1 AND PP-1 SHALL ACTIVATE. BPV-1 SHALL OPEN OR CLOSE AS NECESSARY TO PROVIDE NECESSARY PRESSURE & FLOW TO FEATURE MANIFOLDS.

3.5. GPM SPEED SETPOINTS FOR VFD-1 SHALL BE SET BY SYSTEM INSTALLER TO ACHIEVE DESIRED FLOW EFFECTS FOR WATER FEATURE(S).

3.6. IN BACKWASH MODE, CONTROL PANEL CP-1 SHALL SET PUMP PP-1 TO BACKWASH FLOW RATE VIA VFD-1. THIS FLOW RATE IS INTENDED FOR BACKWASHING (1) FILTER AT A TIME ONLY.

4. DIVERTER/DEBRIS TRAP CONTROL

4.1. GENERAL

4.1.1. DEBRIS TRAP SHALL BE CONFIGURED TO OPERATE IN RECIRCULATION MODE ONLY WHEN THERE IS AN ACTIVE WATER FEATURE SEQUENCE ACTIVE.

4.2. RECIRCULATION MODE: DIVERTER VALVE SHALL BE CLOSED. WATER FROM SPRAY PAD SHALL DRAIN THROUGH DEBRIS TRAP TO WATER STORAGE TANK.

4.3. DIVERTER MODE: DIVERTER VALVE SHALL BE OPENED. WATER FROM SPRAY PAD SHALL DRAIN THROUGH DEBRIS TRAP TO STORM DRAIN SYSTEM.

5. IN-SEASON, SPRAYPARK PRE-TREATMENT SEQUENCE:

5.1. GENERAL: PRE-TREATMENT SEQUENCE SHALL BE RUN FOR 30 MINUTES (MINIMUM) PRIOR TO SPRAYPARK OPENING FOR USE.

5.2. FILTRATION LOOP INCLUDING PUMP PP-1 SHALL BE ACTIVATED.

5.3. DEBRIS TRAP DT-1 SHALL BE SET TO SPRAYPARK CIRCULATION MODE.

5.4. ACTIVATE PUMP PP-1 AT FEATURE FLOW RATE.

5.5. ACTIVATE ULTRAVIOLET WATER TREATMENT SYSTEM UV-1.

5.6. OPEN MANIFOLD MASTER VALVE MMV-1.

5.7. OPEN ALL WATER FEATURE SOLENOID VALVES FOR A MINIMUM OF (5) MINUTES TO ENSURE ALL WATER IN SUPPLY LINES IS REPLACED.

5.8. ACTIVATE PUMP PP-1 AT FULL OPERATIONAL FLOW RATE.

5.9. AT CLOSE OF AUTO-FLUSH SEQUENCE, SET SYSTEM TO "IN-SEASON, OPERATIONAL HOURS" MODE.

6. IN-SEASON, OPERATIONAL HOURS MODE:

6.1. ACTIVATE PP-1 AT RECIRCULATION/FEATURE FLOW RATE.

6.2. DEBRIS TRAP DT-1 SHALL BE SET TO DIVERTER MODE.

6.3. BYPASS VALVE BPV-1 SHALL OPEN TO ALLOW BYPASS FLOW TO TANK.

6.4. ACTIVATE ULTRAVIOLET WATER TREATMENT SYSTEM UV-1.

6.5. UPON SIGNAL FROM ACTIVATOR BOLLARD:

6.5.1. CHANGE DEBRIS TRAP TO RECIRCULATION MODE.

6.5.2. OPEN MANIFOLD MASTER VALVE MMV-1.

6.5.3. OPEN WATER FEATURE SOLENOID VALVES ACCORDING TO PROGRAMMED SEQUENCE(S).

6.6. AT END OF WATER FEATURE SEQUENCE:

6.6.1. CLOSE ALL WATER FEATURE SOLENOID VALVES.

6.6.2. CLOSE MANIFOLD MASTER VALVE MMV-1.

6.6.3. DEACTIVATE PUMP PP-1.

6.6.4. CHANGE DEBRIS TRAP TO DIVERTER MODE.

7. IN-SEASON, OFF-HOURS MODE:

7.1. DEBRIS TRAP DT-1 SHALL BE SET TO DIVERTER MODE.

7.2. PUMP PP-1 SHALL BE ACTIVATED AT RECIRCULATION FLOW RATE.

7.3. ULTRAVIOLET WATER TREATMENT SYSTEM UV-1 SHALL BE ACTIVATED.

7.4. BYPASS VALVE BPV-1 SHALL BE OPEN.

7.5. MANIFOLD MASTER VALVE MMV-1 SHALL BE CLOSED.

7.6. ALL WATER FEATURE SOLENOID VALVES SHALL BE CLOSED.

7.7. ACTIVATE PUMP PP-1 AT RECIRCULATION FLOW RATE.

8. BACKWASH MODE:

8.1. GENERAL

8.1.1. BACKWASH OPERATION IS CONDUCTED MANUALLY.

8.1.2. BACKWASH SEQUENCES ARE DESIGNED TO BACKWASH (1) FILTER AT A TIME.

8.2. MANIFOLD MASTER VALVES SHALL BE CLOSED.

8.3. ALL WATER FEATURE SOLENOID VALVES SHALL BE CLOSED.

8.4. MANUALLY SET BACKWASH VALVE TO BACKWASH POSITION.

8.5. ACTIVATE PUMP PP-2 AT BACKWASH FLOW RATE FOR 3-5 MINUTES TO BACKWASH FILTER COMPLETELY.

8.6. AT END OF BACKWASH CYCLE:

8.6.1. DEACTIVATE PUMP PP-2.

8.6.2. MANUALLY SET MULTI-PORT VALVE TO NORMAL CIRCULATION MODE.

8.6.3. RESET SYSTEM TO EITHER "IN-SEASON, DURING SPRAYPARK OPERATIONAL HOURS" OR "IN-SEASON, OFF HOURS" MODE.

9. OFF-SEASON MODE:

9.1. GENERAL: SPRAYPARK SYSTEM SHALL BE COMPLETELY DRAINED (INCLUDING HOLDING TANK, FILTERS, DEBRIS TRAP, & ALL PIPING) & DEACTIVATED.

9.2. CLOSE ALL AUTOMATIC FILL AND MAKEUP WATER VALVES.

9.3. OPEN MANUAL VALVES IN PIPE TRENCH FOR EACH WATER FEATURE SUPPLY PIPE TO DRAIN FEATURE SUPPLY PIPING SYSTEM INTO PIPE TRENCH.

9.4. OPEN WATER STORAGE TANK DRAIN VALVE IN CATCHBASIN AND ALLOW TO DRAIN.

9.5. OPEN DIVERTER DRAIN VALVE IN CATCHBASIN AND ALLOW TO DRAIN.

9.6. OPEN FILTER DRAIN VALVE(S) AND ALLOW TO DRAIN.

9.7. OPEN DRAIN PORTS AT BOTTOM OF WYE STRAINERS AND ALLOW TO DRAIN.

9.8. OPEN DRAIN PORTS AT BOTTOM OF HAIR/LINT STRAINERS AND ALLOW TO DRAIN.

9.9. OPEN DRAIN VALVE FOR TANK BOTTOM DRAIN AND ACTIVATE SUMP PUMP SYSTEM IN MANHOLE TO DRAIN WATER STORAGE TANK.

9.10. DEBRIS TRAP DT-1 SHALL BE SET TO DIVERTER MODE.

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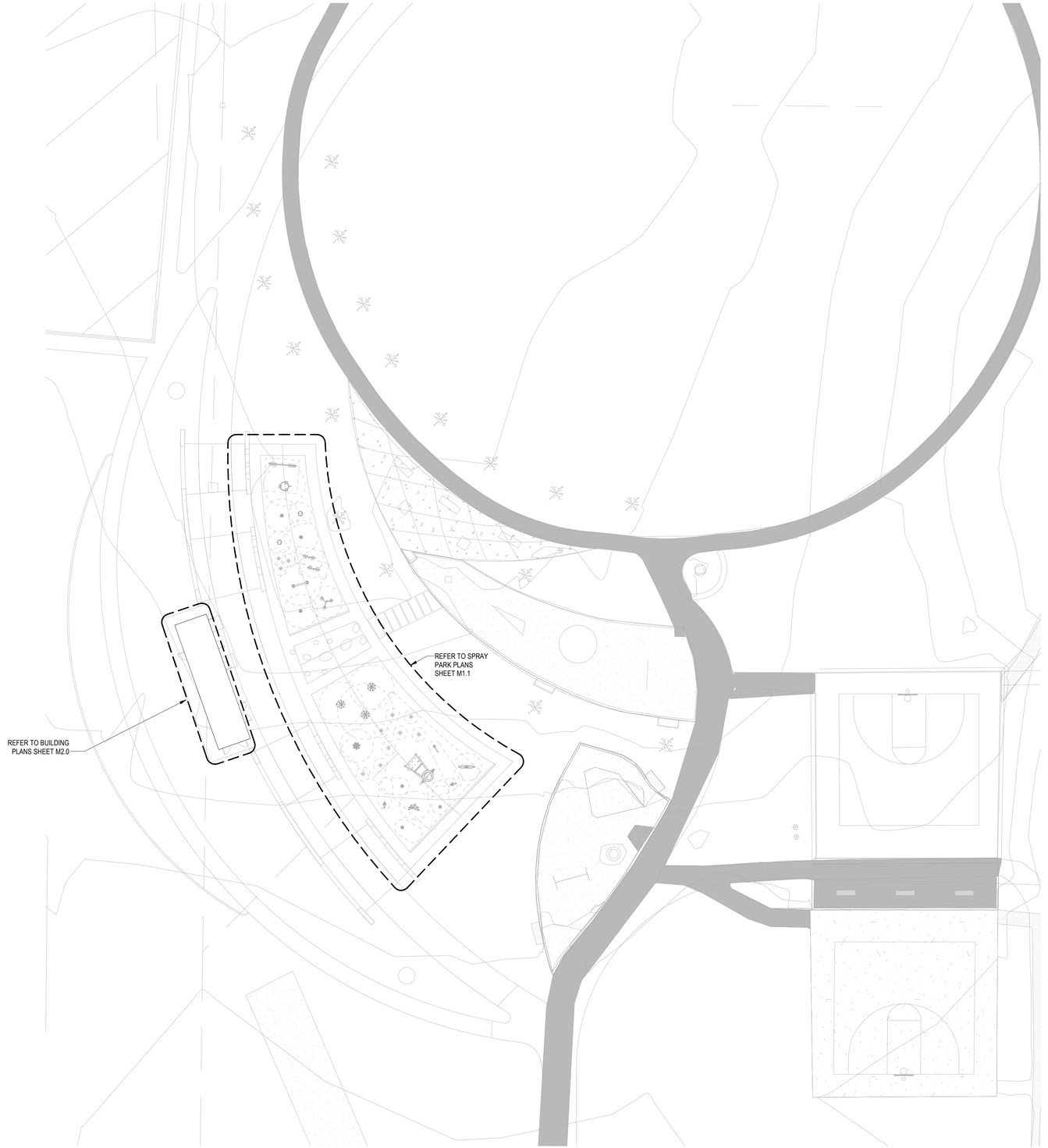
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CHECKED BY: JB/ZK

DATE: OCTOBER 21, 2026

SHEET NAME: SEQUENCES

SHEET #: M0.4



1 **SITE PLAN**
SCALE: 1" = 20'-0"

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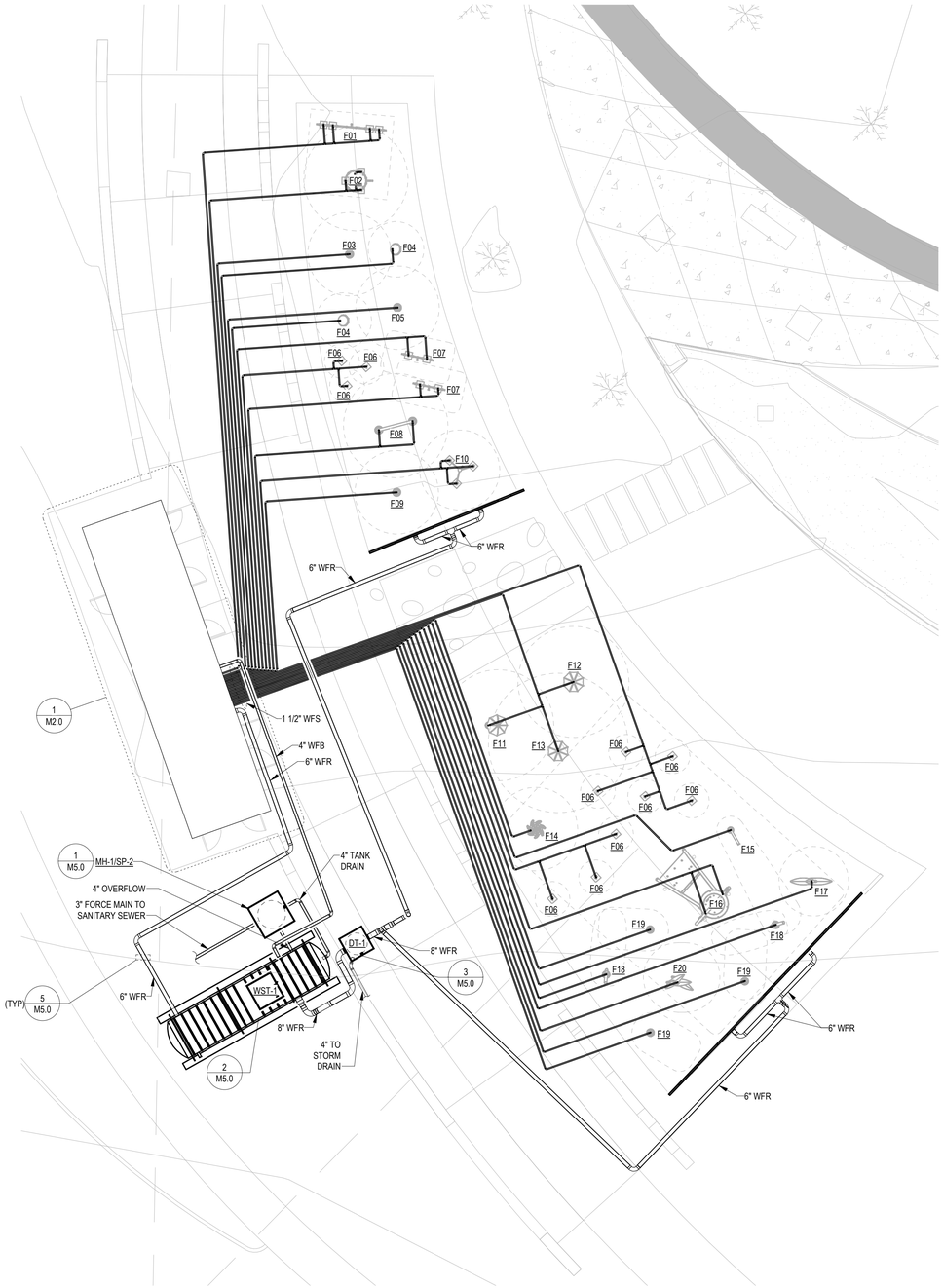
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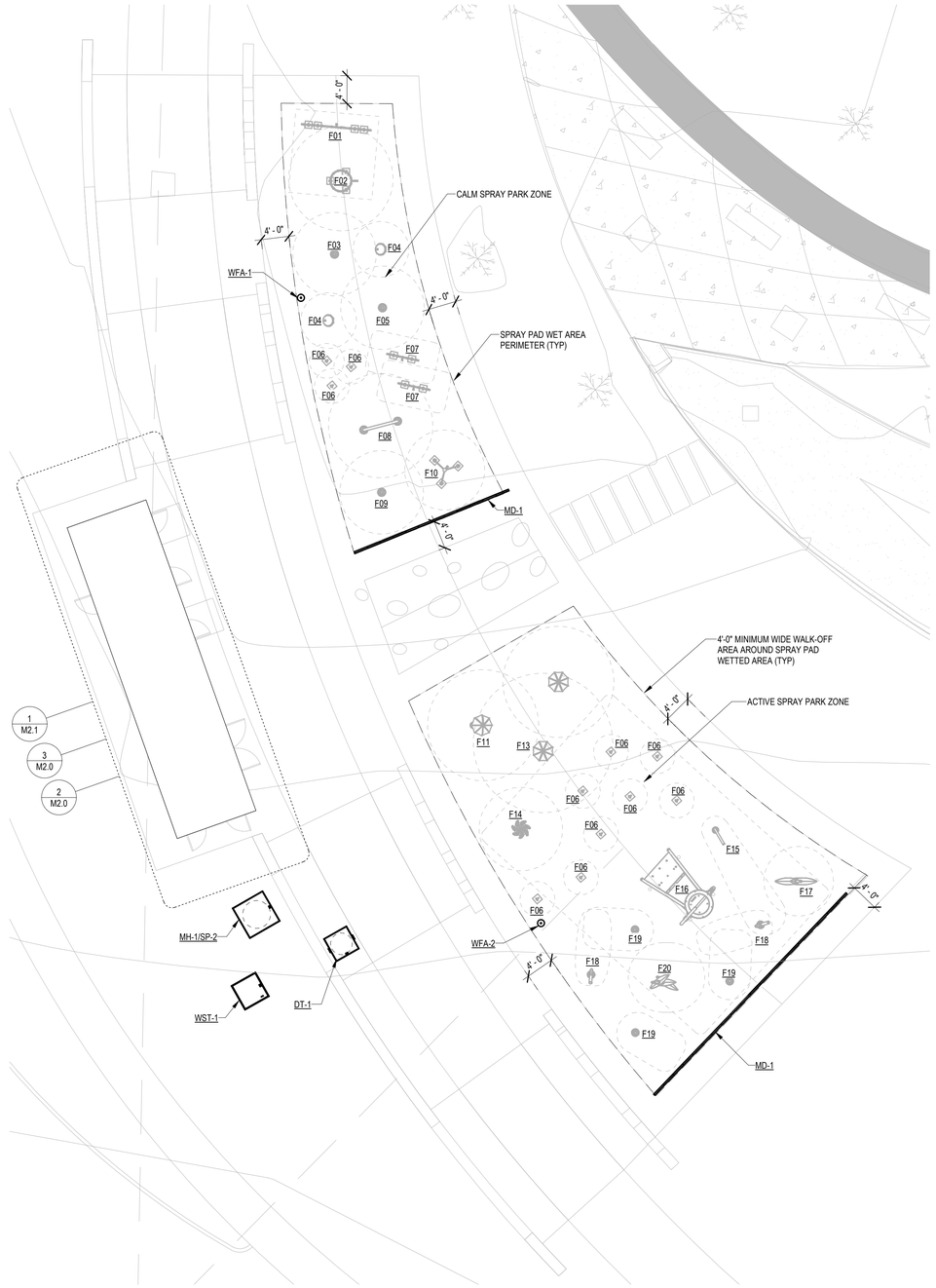
SHEET #
M1.0



2 SPRAY PARK PIPING PLAN

SCALE: 1" = 10'-0"

N



1 SPRAY PARK PLAN

SCALE: 1" = 10'-0"

N

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REV #	DATE OF REV

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DATE	OCTOBER 21, 2026

SHEET NAME
SPRAY PARK PLANS

SHEET #
M1.1

WATER FEATURE SCHEDULE

SYMBOL	VORTEX FEATURES		GPM				PIPE SIZE	IMPACT	DISCH	MAX SPRAY PROJECTION (IN)		VALVE	NOTES
	FEATURE NAME	QTY	MIN	MAX	DESIGN	TOTAL	(IN)	(LB-FORCE)	PRESS (PSI)	VERTICAL	LATERAL	#	
F01	VOR 0304 - WATER TUNNEL NO. 1	1	16	32	32	32	1.50	0.3719	5.00	-	144.00	1	5
F02	VOR 0307 - CYLINDER SPRAY	1	28	36	36	36	1.50	0.3221	5.00	96.00	-	2	7
F03	VOR 0555 - AQUA DOME NO. 1	1	10	18	18	18	1.50	1.1158	5.00	45.00	-	3	1,4,5
F04	VOR 7581 - WATERBUG NO. 2	2	5	7	7	14	1.50	0.1596	5.00	-	48.00	4	1,5
F05	VOR 0555 - AQUA DOME NO. 1	1	10	18	18	18	1.50	1.1158	5.00	-	72.00	5	1,5
F06	VOR 7512 - JET STREAM NO. 1	11	2	3	3	33	1.50	0.4555	5.00	96.00	-	6	5
F07	VOR 0318 - WATER WALL NO. 1	2	15	20	20	40	1.50	0.3143	5.00	96.00	-	7	6
F08	VOR 0515 - ARCH	1	9	18	18	18	1.50	0.3529	5.00	87.00	-	8	2,4,6
F09	VOR 7530 - AQUA DOME NO. 2	1	10	18	18	18	1.50	1.1158	5.00	72.00	-	9	1,4,5
F10	VOR 7032 - WATER JELLY NO. 3	1	15	20	20	20	1.50	0.6791	5.00	12.00	-	10	7
F11	VOR 7441 - OMBRELLO NO. 3	1	5	7	7	7	1.50	-	5.00	112.00		11	1,4,5
F12	VOR 7445 - OMBRELLO NO. 1	1	5	7	7	7	1.50	-	5.00	122.00	-	12	1,4,5
F13	VOR 7446 - OMBRELLO TWIRL NO. 1	1	5	7	7	7	1.50	-	5.00	122.00	-	13	1,4,5
F14	VOR 7236 - HELIO NO. 1	1	43	50	50	50	1.50	-	5.00	50.00		16	1,4,5
F15	VOR 7728 - BAMBOO STEM NO. 2	1	1	3	3	3	1.50	-	5.00	123.00	-	18	1,4,5
F16	VOR 0130 - SUPERSPLASH NO. 2	1	25	38	38	38	1.50	-	5.00	251.00	-	20	3,4,8
F17	VOR 7725 - BAMBOO TREE NO. 1	1	1	2	2	2	1.50	-	5.00	170.00	-	21	1,4,5
F18	VOR 7774 - SILHOUETTE NO. 3	2	4	8	8	16	1.50	0.3719	5.00	-	132.00	22	1,5
F19	VOR 7773 - SILHOUETTE NO. 2	3	4	6	6	18	1.50	0.3719	5.00	-	121.00	23	1,5
F20	VOR 7789 - BAMBOO TREE NO. 2	1	3	6	6	6	1.50	-	5.00	144.00	-	24	1,4,5
						401	MAXIMUM FLOW RATE (GPM)						
						200.5	50% SEQUENCED FLOW RATE (GPM)						

GENERAL NOTES:
A. PIPE SIZING, GPM, PERFORMANCE DATA, IMPACT FORCES, AND CONFIGURATION SHOWN ON DRAWINGS IS BASED ON VORTEX FEATURE SELECTION.
B. REFER TO LANDSCAPE ARCHITECTURE DOCUMENTS FOR COLOR SELECTIONS FOR ALL WATER FEATURES.
C. IMPACT FORCES INDICATED ARE THEORETICAL CALCULATED VALUES. ACTUAL IMPACT FORCES ARE ASSUMED TO BE APPROXIMATELY 1/3 OF INDICATED VALUE.
D. NO IMPACT FORCES ARE LISTED FOR DUMPING BUCKET STYLE OR OTHER FEATURES WHERE NO DIRECT SPRAY IS PROJECTED AT USERS.
E. RECIRCULATION & FEATURE LOOP SYSTEM IS DESIGNED FOR 210 GPM MAXIMUM FLOW RATE. IN NO CASE SHALL SYSTEM BE SET TO EXCEED 210 GPM TOTAL FLOW RATE.

NOTES:
1. PROVIDE WITH 1 VORTEX SAFE SWAP DETACHABLE BASE.
2. PROVIDE WITH 2 VORTEX SAFE SWAP DETACHABLE BASES.
3. PROVIDE WITH 4 VORTEX SAFE SWAP DETACHABLE BASES.
4. SPRAY HEIGHT INDICATED IS FEATURE HEIGHT.
5. PROVIDE WITH 1 FIELD-CAST CONCRETE FOOTING.
6. PROVIDE WITH 2 FIELD-CAST CONCRETE FOOTINGS.
7. PROVIDE WITH 3 FIELD-CAST CONCRETE FOOTINGS.
8. PROVIDE WITH 4 FIELD-CAST CONCRETE FOOTINGS.

BID SET

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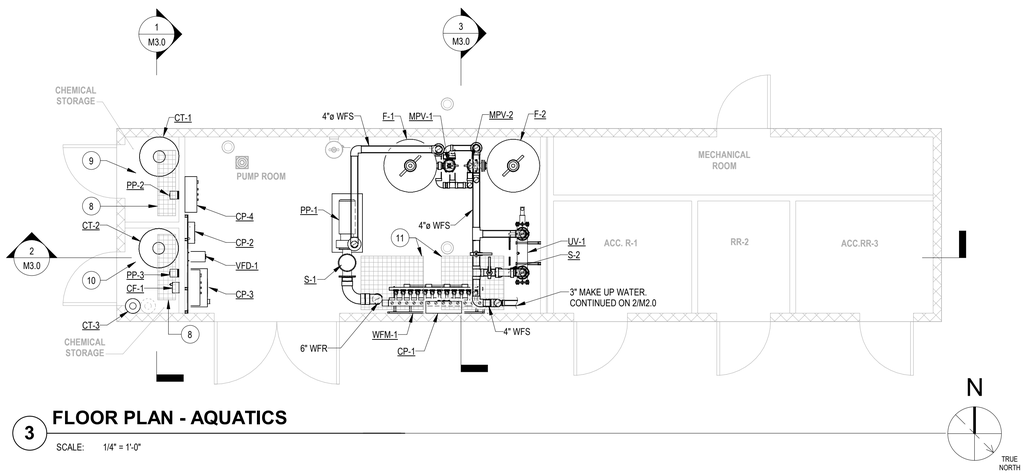
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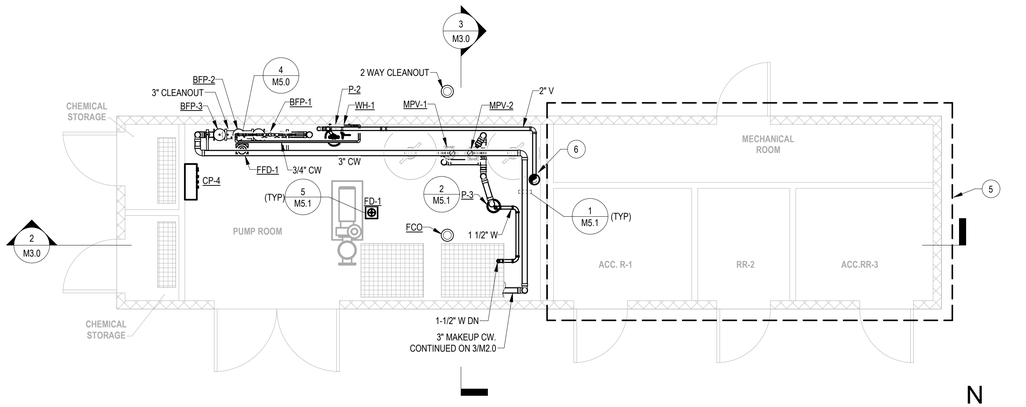
SHEET NAME
SPRAY FEATURE ELEMENTS

SHEET #
M1.2



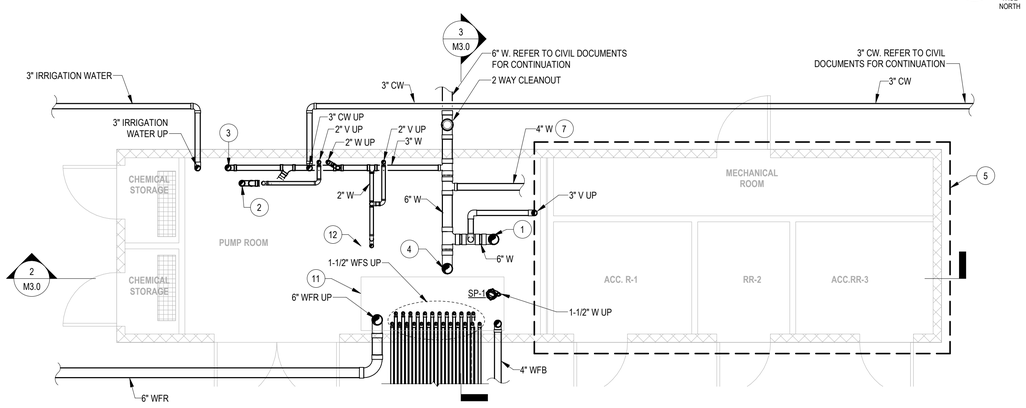
3 FLOOR PLAN - AQUATICS

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



2 FLOOR PLAN - PLUMBING

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



1 FOUNDATION PLAN - PLUMBING & AQUATICS

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

PLAN NOTES

1. 6" WASTE UP TO P-3.
2. 3" WASTE UP TO FFD-1.
3. 3" WASTE UP TO FCO.
4. 6" WASTE UP TO FCO.
5. PLUMBING FOR THIS AREA PROVIDED AS PART OF PREFABRICATED BUILDING PACKAGE.
6. 3" UP TO 6" VTR ABOVE.
7. 4" WASTE TO RESTROOM AREA PLUMBING. REFER TO PREFABRICATED BUILDING PACKAGE FOR CONTINUATION.
8. INTEGRAL 28" DEEP SPILL CONTAINMENT SUMP WITH REMOVABLE FIBERGLASS GRATING FLUSH WITH FLOOR. SPILL CONTAINMENT VOLUME APPROXIMATELY 104 GALLONS PER SUMP. REFER TO STRUCTURAL DOCUMENTS FOR SUMP AND GRATING INFORMATION.
9. SANITIZER CHEMICAL STORAGE ROOM. UP TO 55 GALLONS 12.5% LIQUID CHLORINE IN USE & 55 GALLONS STORED ALLOWED.
10. PH CONTROL CHEMICAL STORAGE ROOM. UP TO 750 LBS GAS CO2 STORED & IN USE ALLOWED. UP TO 55 GALLONS 37% LIQUID MURIATIC ACID STORED & 55 GALLONS IN USE ALLOWED.
11. INTEGRAL 54" DEEP PIPE TRENCH/SUMP WITH REMOVABLE FIBERGLASS GRATING FLUSH WITH FLOOR. REFER TO STRUCTURAL DOCUMENTS FOR SUMP AND GRATING INFORMATION.
12. 2" WASTE UP TO FD-1.

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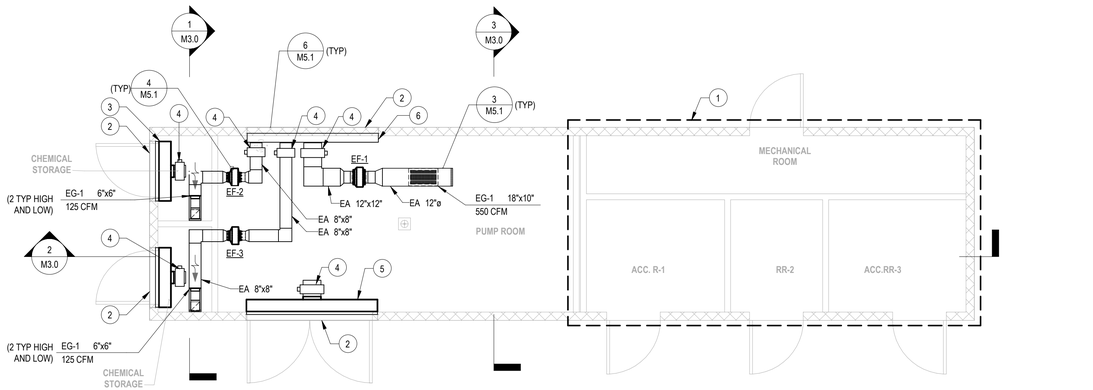
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SHEET NAME
BUILDING PLANS

SHEET #
M2.0



1 FLOOR PLAN - HVAC

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

N

TRUE NORTH

PLAN NOTES

1. HVAC FOR THIS AREA PROVIDED AS PART OF PREFABRICATED BUILDING PACKAGE.
2. LOUVER PROVIDED AS PART OF PREFABRICATED BUILDING PACKAGE.
3. PROVIDE 6" DEEP SHEET METAL PLENUM BEHIND EACH LOUVER. LOUVER IS IRREGULAR SHAPE. REFER TO PREMANUFACTURED BUILDING DOCUMENTS FOR SHAPE AND SIZE. PROVIDE SHORT SECTION OF 8X8" DUCT FROM PLENUM TO FACILITATE INSTALLATION OF MOTORIZED DAMPER.
4. PROVIDE MOTORIZED DAMPER IN DUCT AT THIS LOCATION. INTERLOCK DAMPER WITH FAN. DAMPER SHALL CLOSE WHEN FAN IS OFF.
5. PROVIDE 6" DEEP SHEET METAL PLENUM BEHIND LOUVER. LOUVER IS APPROXIMATELY 88"X30". REFER TO PREMANUFACTURED BUILDING DOCUMENTS FOR ACTUAL SHAPE AND SIZE. PROVIDE SHORT SECTION OF 12X12" DUCT FROM PLENUM TO FACILITATE INSTALLATION OF MOTORIZED DAMPER.
6. PROVIDE 6" DEEP SHEET METAL PLENUM BEHIND LOUVER. LOUVER IS APPROXIMATELY 88"X21"X6". REFER TO PREMANUFACTURED BUILDING DOCUMENTS FOR ACTUAL SHAPE AND SIZE.

BID SET

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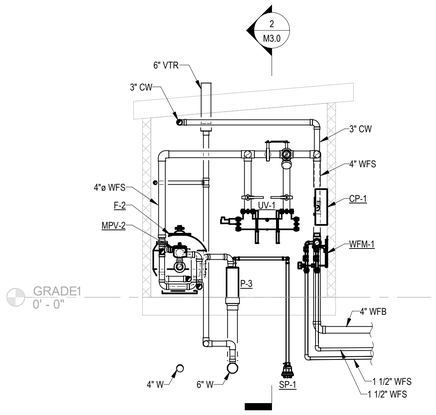
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SHEET NAME
BUILDING PLAN

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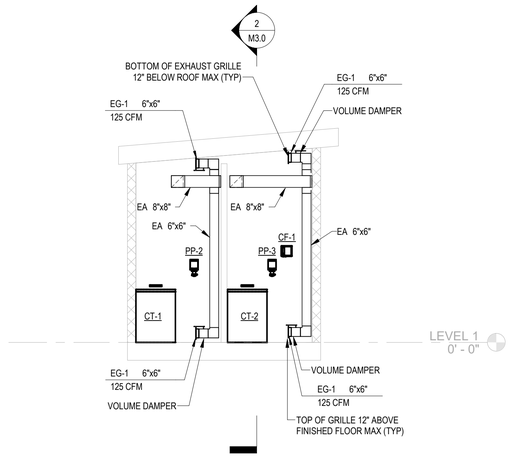
PLAN NOTES

1. LOUVER PROVIDED AS PART OF PREFABRICATED BUILDING PACKAGE.
2. HVAC FOR THIS AREA PROVIDED AS PART OF PREFABRICATED BUILDING PACKAGE.
3. PLUMBING FOR THIS AREA PROVIDED AS PART OF PREFABRICATED BUILDING PACKAGE.



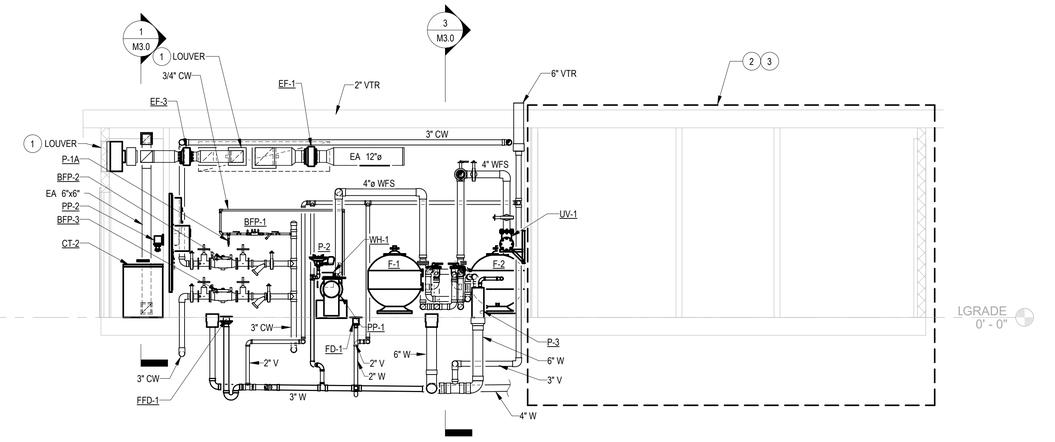
3 BUILDING SECTION 3

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



1 BUILDING SECTION 1

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



2 BUILDING SECTION 2

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

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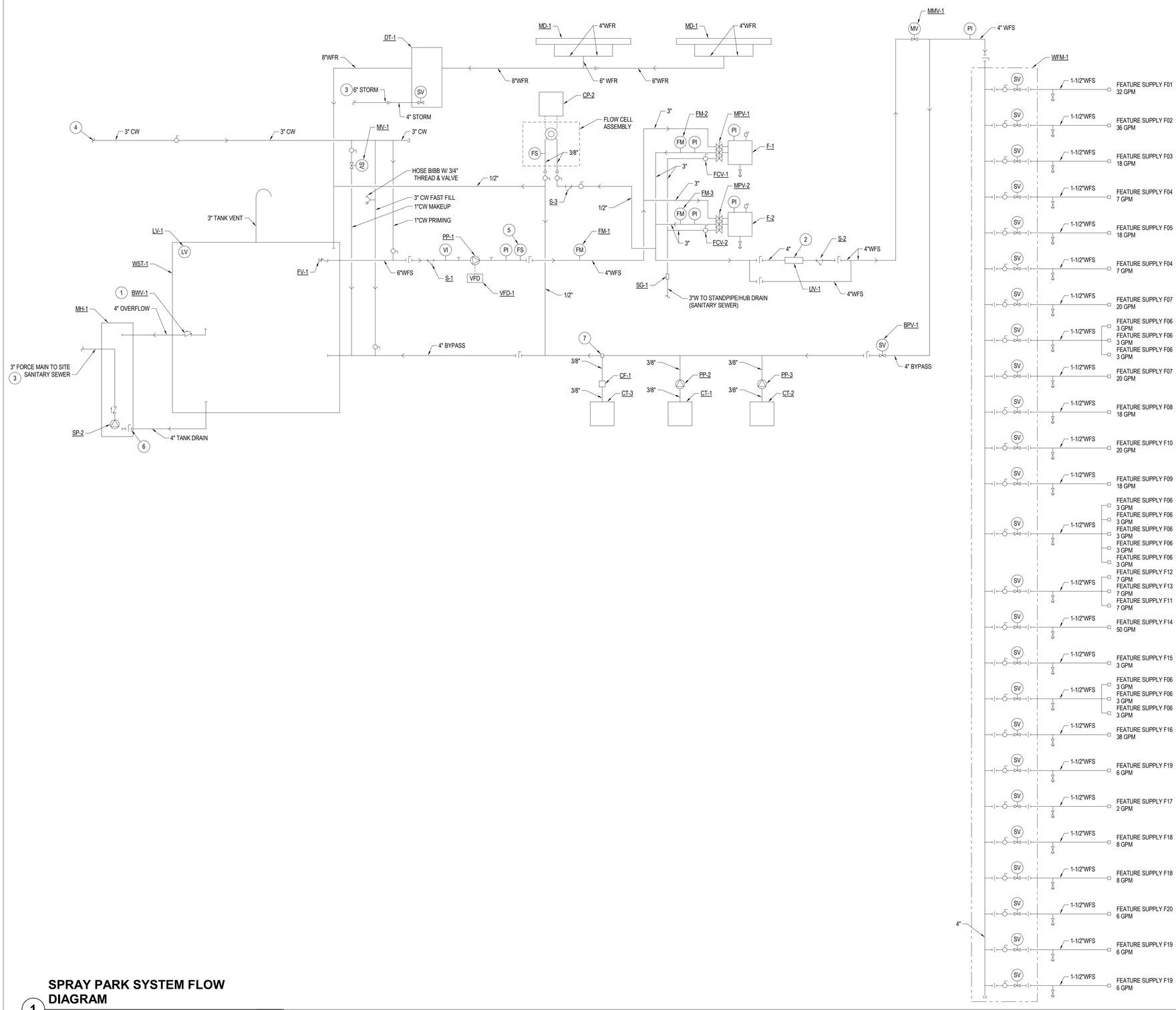
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SHEET NAME
SECTIONS

SHEET #
M3.0



SPRAY PARK SYSTEM FLOW DIAGRAM

1 SCALE: NONE

PLAN NOTES

1. PROVIDE PVC BACKWATER VALVE FOR OVERFLOW DRAIN. VALVE SHALL BE FIELD INSTALLED INSIDE WATER STORAGE TANK.
2. INSTALL UV UNIT WITHOUT THE MANUFACTURER-PROVIDED INLINE SCREEN.
3. REFER TO CIVIL DOCUMENTS FOR CONTINUATION.
4. REFER TO PLUMBING DOCUMENTS FOR CONTINUATION.
5. FLOW SWITCH OR PRESSURE SWITCH PROVIDED BY SPRAY PARK MECHANICAL SYSTEM MANUFACTURER.
6. PROVIDE PERMANENTLY INSTALLED VALVE HANDLE EXTENSIONS FOR ALL VALVES IN MANHOLE. EXTENSIONS SHALL PLACE VALVE OPERATORS/HANDLES WITHIN 12" OF MANHOLE LID.
7. CO2 INJECTOR FITTING.
8. SOLENOID VALVE FOR MAKEUP WATER CONTROL. VALVE SHALL BE POWERED AND OPERATED BY SIGNAL FROM CHEMISTRY CONTROLLER CP-2 BASED ON LEVEL SENSOR LV-1.
9. MASTER VALVE SHALL BE BUTTERFLY TYPE WITH MOTORIZED OPERATOR. VALVE SHALL OPEN WHEN WATER FLOW IS REQUIRED TO FEATURES AND SHALL CLOSE WHEN NO FEATURE SEQUENCES ARE ACTIVATED.

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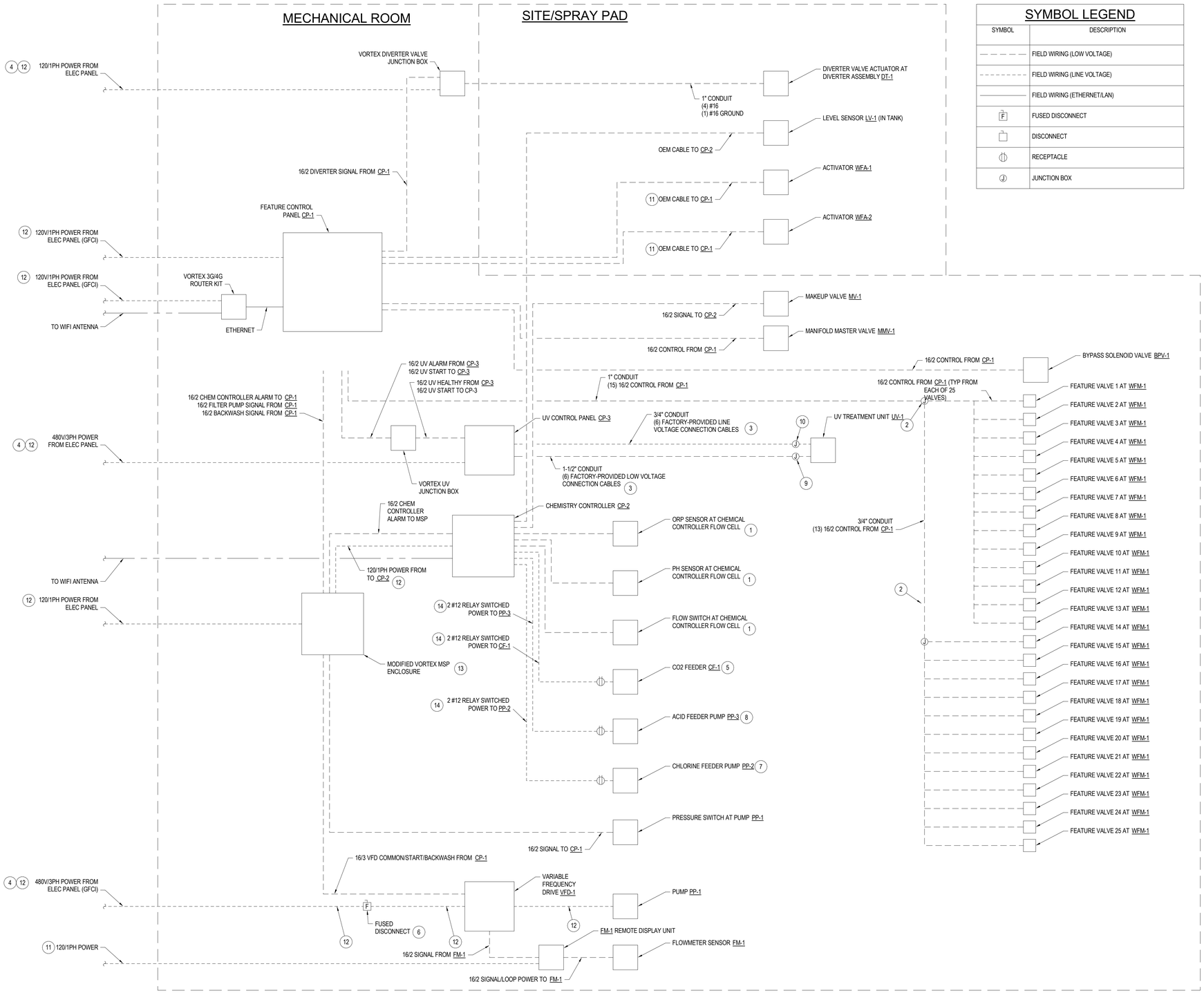
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SHEET NAME
SPRAY PARK FLOW DIAGRAM

SHEET #
M4.0



SYMBOL LEGEND

SYMBOL	DESCRIPTION
	FIELD WIRING (LOW VOLTAGE)
	FIELD WIRING (LINE VOLTAGE)
	FIELD WIRING (ETHERNET/LAN)
F	FUSED DISCONNECT
	DISCONNECT
	RECEPTACLE
J	JUNCTION BOX

GENERAL NOTES

1. AT CONTRACTOR OPTION, WHERE ALLOWED BY NEC REQUIREMENTS AND DIVISION 26 DOCUMENTS, WHERE SEVERAL SIMILAR (LOW VOLTAGE OR LINE VOLTAGE CLASSIFICATION) CONNECTIONS ARE ROUTED BETWEEN UPPER AND LOWER FLOOR OR TO COMMON AREAS, THESE MAY BE ROUTED TOGETHER IN THE SAME CONDUIT.
2. WIRING SHALL BE RUN IN CONDUIT. CONDUIT SYSTEM AND FITTINGS SHALL BE PVC.
3. UNLESS NOTED OTHERWISE ON THIS SHEET, FINAL WIRING CONNECTIONS TO EQUIPMENT SHALL BE PROVIDED BY ELECTRICAL CONTRACTOR. ALL CONDUIT AND JUNCTION BOXES SHALL BE PROVIDED BY ELECTRICAL CONTRACTOR.
4. ELECTRICAL INSTALLATION SHALL COMPLY WITH NEC REQUIREMENTS.
5. UNLESS OTHERWISE NOTED, ALL LINE VOLTAGE WIRING SHALL BE #12 AWG COPPER.
6. UNLESS OTHERWISE NOTED, ALL LOW VOLTAGE WIRING SHALL BE 16/2 COPPER W/ SHIELDING.
7. ALL WIRING SHALL BE LABELED AT BOTH ENDS TO FACILITATE CONNECTIONS & TROUBLESHOOTING.
8. REFER TO VORTEX CONTROL PANEL SHOP DRAWINGS FOR TERMINATION POINTS AND ADDITIONAL WIRING INFORMATION REGARDING WATER FEATURE CONTROL PANEL CP-1, UV JUNCTION BOX, MASTER VALVE JUNCTION BOX, DIVERTER VALVE JUNCTION BOX, OR MODIFIED MSP ENCLOSURE.
9. ALL ELECTRICAL ENCLOSURES SHALL BE NEMA 4X RATED.

PLAN NOTES

1. WIRING FOR CHEMISTRY CONTROLLER SENSORS IS PROVIDED WITH CHEMISTRY CONTROLLER PACKAGE.
2. JUNCTION BOXES LOCATED IN IMMEDIATE VICINITY OF SOLENOID VALVES AT WATER FEATURE MANIFOLD WFM-1.
3. FACTORY WIRING HARNESS CONNECTIONS BETWEEN UV CONTROL PANEL CP-3 AND UV UNIT UV-1 SHALL BE MADE BY UV SYSTEM INSTALLER.
4. REFER TO ELECTRICAL DOCUMENTS FOR CONDUCTOR AND GROUND WIRE SIZING INFORMATION.
5. PLUG IN CONNECTION FROM CO2 FEEDER TO DEDICATED RECEPTACLE. RECEPTACLE SWITCHED VIA RELAY IN CHEMISTRY CONTROLLER CP-2.
6. FUSED DISCONNECT PROVIDED BY DIVISION 26 CONTRACTOR.
7. PLUG IN CONNECTION FROM CHLORINE FEED PUMP TO DEDICATED RECEPTACLE. RECEPTACLE SWITCHED VIA RELAY IN CHEMISTRY CONTROLLER CP-2.
8. PLUG IN CONNECTION FROM ACID FEED PUMP TO DEDICATED RECEPTACLE. RECEPTACLE SWITCHED VIA RELAY IN CHEMISTRY CONTROLLER CP-2.
9. 12X12X6" MINIMUM JUNCTION BOX SIZE.
10. 6X6X4" MINIMUM JUNCTION BOX SIZE.
11. 5-CONDUCTOR FACTORY-PROVIDED CABLE FROM ACTIVATORS TO CONTROL PANEL CP-1.
12. WIRING PROVIDED BY DIVISION 26 CONTRACTOR.
13. REMOVE CHEMICAL ALARM RELAY ASSEMBLY AND FILTER PUMP SIGNAL RELAY ASSEMBLY FROM SUPPLIED VORTEX MSP ENCLOSURE. PROVIDE NEW NEMA 4X ENCLOSURE FOR COMPONENTS. SELECT NEW ENCLOSURE SIZE TO ACCOMODATE COMPONENTS RE-USED FROM ORIGINAL MSP ENCLOSURE.
14. SOLID-STATE RELAYS IN CHEMISTRY CONTROLLER CP-2 SHALL PROVIDE 120V/1PH SWITCHED POWER TO CHEMICAL FEED EQUIPMENT.
15. FLOWMETER REMOTE DISPLAY POWERED BY PLUG-IN TRANSFORMER PROVIDED WITH FLOWMETER SYSTEM.

BID SET

1 SPRAY PARK WIRING DIAGRAM

SCALE: NONE

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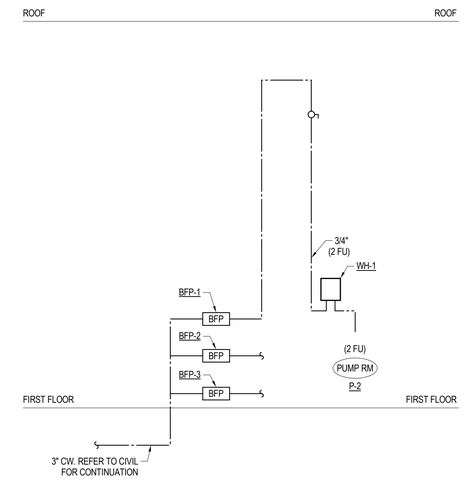
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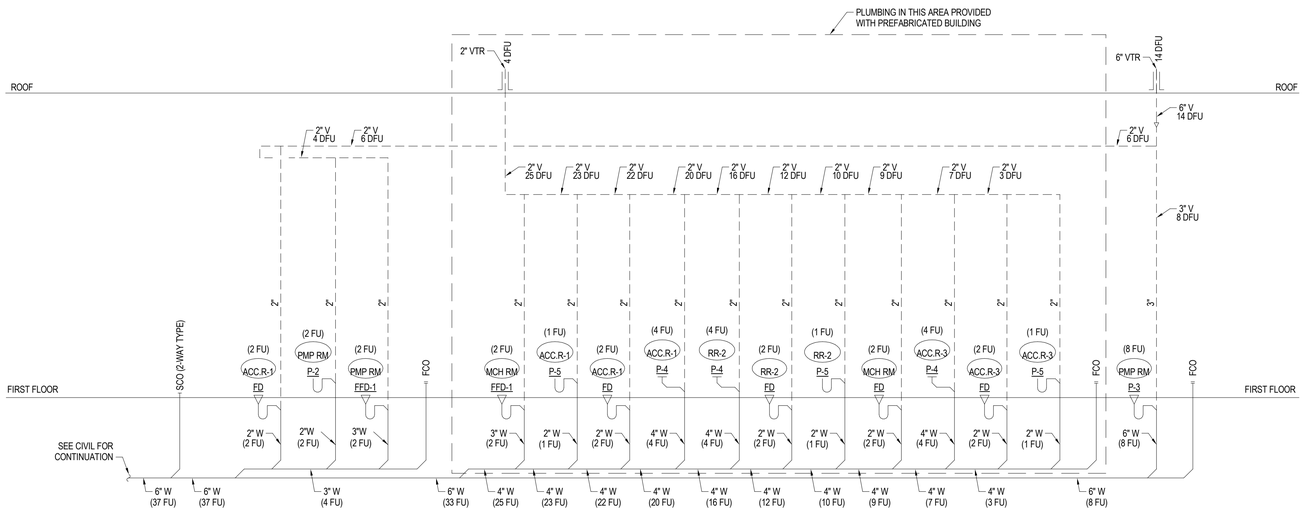
SHEET NAME
SPRAY PARK WIRING DIAGRAM

SHEET #
M4.1



1 PLUMBING RISER DIAGRAM

SCALE: NONE



2 WASTE RISER DIAGRAM

SCALE: NONE

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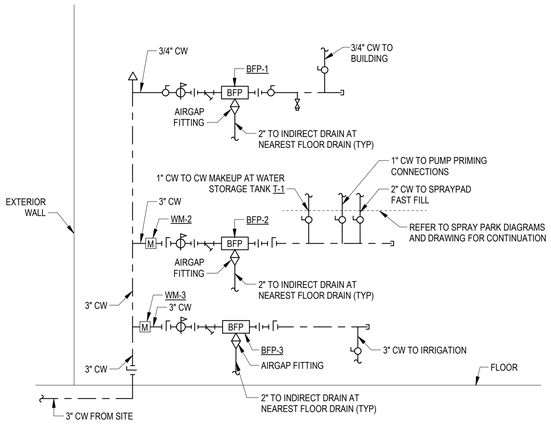
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SHEET NAME
PLUMBING DIAGRAMS

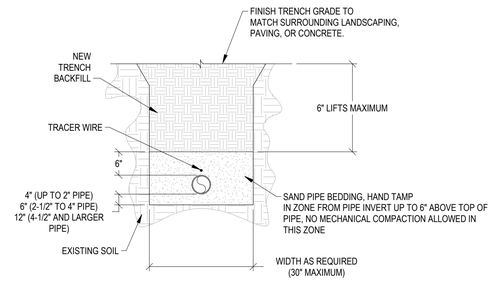
SHEET #
M4.2



NOTE:
1. RACK-MOUNT ALL RISER COMPONENTS TO WALL.

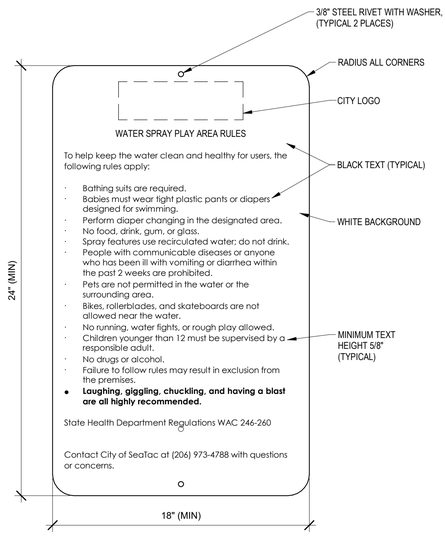
4 WATER HEADER ASSEMBLY

SCALE: 12" = 1'-0"



5 TYPICAL PIPE BURIAL

SCALE: NONE

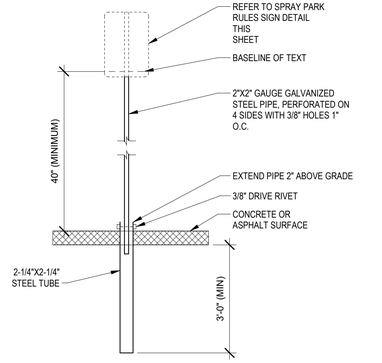


NOTES:

1. SIGN SHALL BE REFLECTIVE TRAFFIC GRADE VINYL SCREEN PRINTING ON METAL BACKING PLATE.
2. CITY LOGO ELECTRONIC FILE SHALL BE PROVIDED BY CITY OF SEATAC.

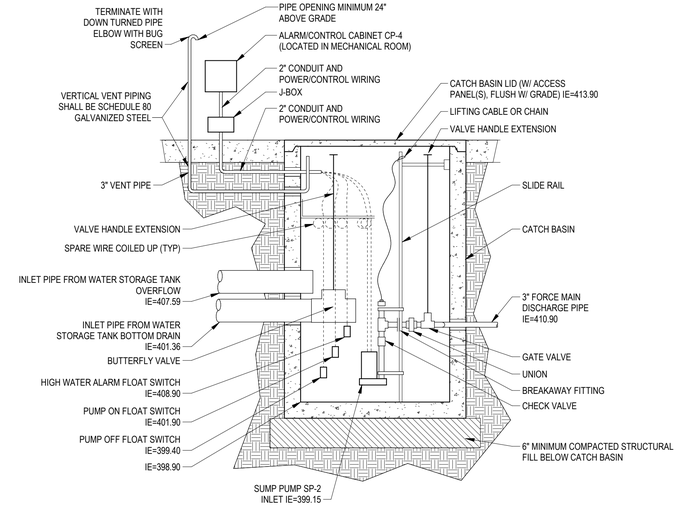
6 SPRAY PARK RULES SIGN DETAIL

SCALE: NONE



7 SIGN INSTALLATION DETAIL

SCALE: NONE

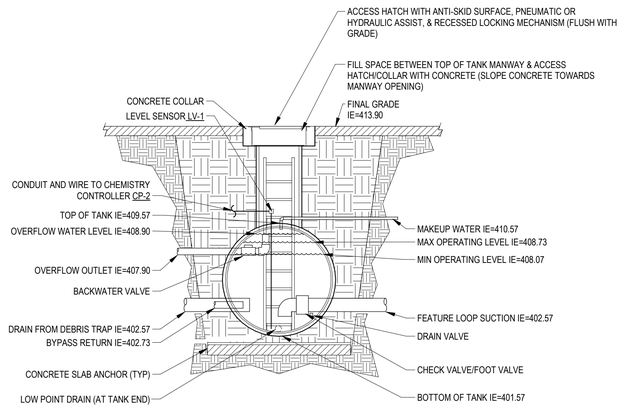


NOTES:

1. ASSEMBLY SHALL INCLUDE (1) PUMP, CHECK VALVE, QUICK DISCONNECT, UNION, SHUTOFF VALVE, AND PIPING TO CONNECT ALL COMPONENTS TO SANITARY SEWER SYSTEM.
2. POWER AND CONTROL WIRING & CONDUIT FROM SUMP PUMP CONTROL PANEL TO COMPONENTS IN CATCHBASIN SHALL BE RESPONSIBILITY OF DIVISION 22 CONTRACTOR.
3. POWER WIRING & CONDUIT TO SUMP PUMP CONTROL PANEL SHALL BE PROVIDED BY DIVISION 26 CONTRACTOR.
4. CATCHBASIN ASSEMBLY SHALL BE CONSTRUCTED TO MEET AASHTO HS-20 LOADING REQUIREMENTS.
5. ACCESS HATCH SHALL BE PROVIDED WITH ANTI-SKID SURFACE, PNEUMATIC OR SPRING OPENING ASSIST, HOLD-OPEN DEVICE, AND RECESSED LOCKING MECHANISM.
6. PROVIDE PERMANENTLY INSTALLED VALVE HANDLE EXTENSIONS FOR ALL OPERABLE VALVES IN CATCHBASIN. EXTEND VALVE HANDLE OPERATORS TO WITHIN 12" OF TOP OF CATCHBASIN.
7. NO JUNCTION BOXES OR WIRE SPLICES SHALL BE ALLOWED IN THE CATCHBASIN. WIRING SHALL BE CONTINUOUS BETWEEN DEVICES IN CATCHBASIN AND JUNCTION BOX (LOCATED EITHER IN MECHANICAL ROOM OR FLUSH MOUNTED IN GRADE).
8. ALL CONDUIT FITTINGS & JUNCTION BOXES SHALL BE WATERTIGHT, SUITABLE FOR COMPLETE & SUSTAINED SUBMERSION WHILE IN USE.
9. MANHOLE INSTALLATION SHALL BE AASHTO HS-20 RATED.

1 MANHOLE & PUMP STATION INSTALLATION

SCALE: NONE

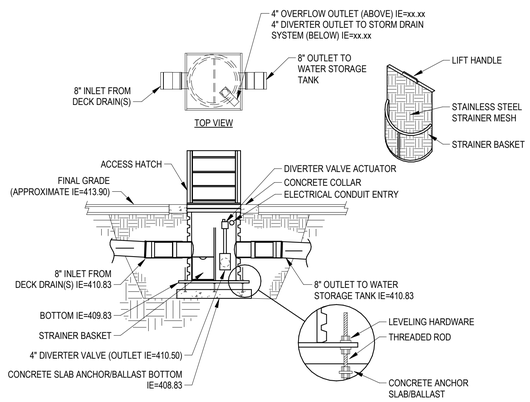


NOTES:

1. NOT ALL REQUIRED PIPE CONNECTIONS ARE SHOWN ON THIS SECTION. REFER TO PLANS AND DIAGRAMS FOR ALL REQUIRED CONNECTIONS.
2. PIPE ORIENTATIONS ARE INTENDED TO ILLUSTRATE INVERTS ONLY. REFER TO PIPING PLANS FOR ORIENTATION OF PIPING CONNECTIONS AT WATER STORAGE TANK.
3. DRAIN FROM BOTTOM OF TANK SHALL BE LOCATED AT TANK END OR BOTTOM, ARRANGED TO PERMIT COMPLETE DRAINAGE OF TANK WITHOUT TRAPPING ANY WATER.
4. TANK SHALL BE INSTALLED WITH SLIGHT SLOPE TOWARDS BOTTOM DRAIN.

2 WATER STORAGE TANK INSTALLATION

SCALE: NONE



ELEVATION VIEW

NOTES:

1. COORDINATE FINAL PIPE ELEVATIONS WITH CIVIL & LANDSCAPE ARCHITECTURAL DRAWINGS.
2. CONCRETE COLLAR SHALL BE 8" THICK (MINIMUM).

3 DIVERTER ASSEMBLY

SCALE: NONE

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10/21/2026

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1800 Ninth Ave, Ste 900, Seattle, WA 98101
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RIVERTON HEIGHTS PARK

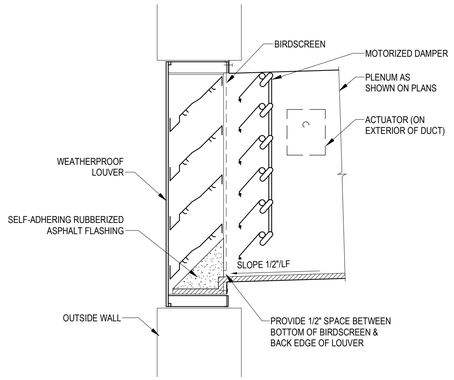
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SEATAC, WA 98168

CLIENT
CITY OF SEATAC
4800 S. 188TH ST.
SEATAC, WA 98188

CONTACT:
CLYNN WILKINSON
CWILKINSON@SEATAC.GOV
(206) 973-4755

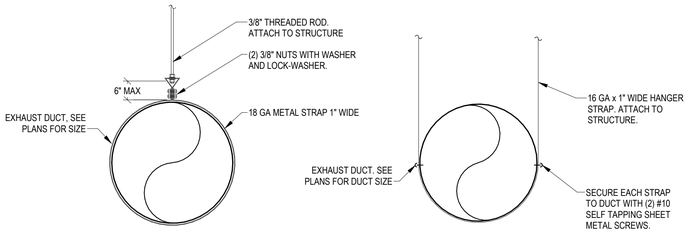
REV #		DATE OF REV

DRAWN BY JB
CHECKED BY JB/ZK
DATE OCTOBER 21, 2026
SHEET NAME DETAILS
SHEET # M5.0



6 WEATHERPROOF LOUVER WITH CONTROL DAMPER DETAIL

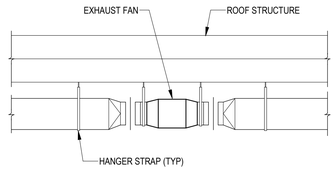
SCALE: NONE



NOTES:
1. PROVIDE AND CONSTRUCT DUCT HANGERS AND SUPPORTS PER SMACNA HVAC DUCT CONSTRUCTION STANDARDS FIGURE 5-5.
2. LENGTH OF SUPPORTS, STRAP SIZES, AND SIZES OF STEEL ANGLES AS REQUIRED FOR DUCTWORK CONFIGURATION.
3. MAXIMUM 10' SPACING BETWEEN SUPPORTS.
4. DUCTS SHALL BE SUPPORTED INDEPENDENTLY AT EQUIPMENT AND ON BOTH SIDES OF AN EXPANSION OR FLEXIBLE JOINT.
5. HANGER SUPPORTS SHALL BE SECURELY FASTENED TO THE BUILDING OR STRUCTURE

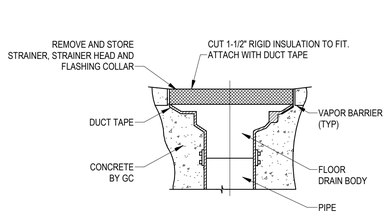
3 TYPICAL DUCT MOUNTING DETAIL

SCALE: NONE

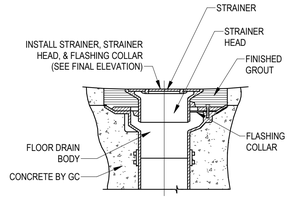


4 INLINE FAN DETAIL

SCALE: NONE



DURING CONCRETE POUR (STEP #1)

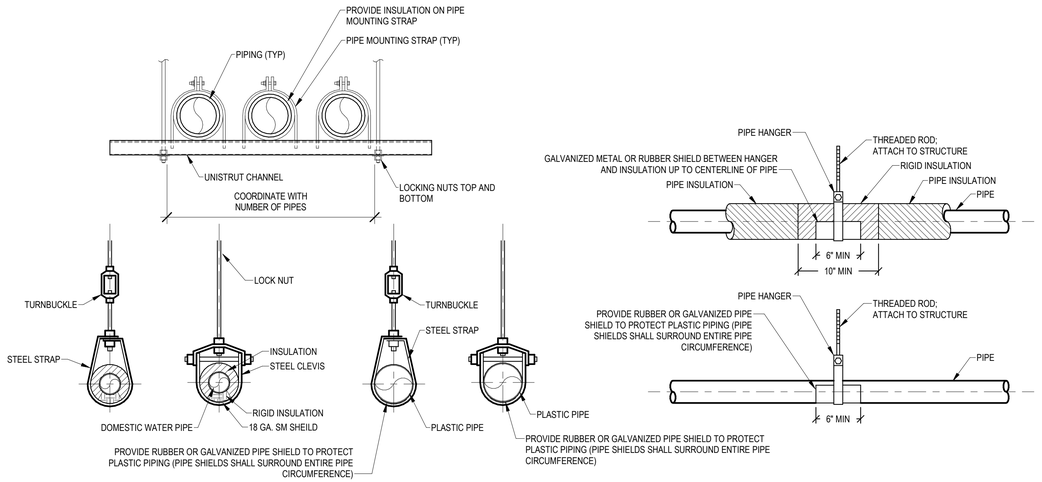


AFTER CONCRETE HARDENS (STEP #2)

NOTE:
COMPLETE INSTALLATION OF FLOOR DRAIN AND SETTING OF FINAL ELEVATION SHALL NOT BE ALLOWED DURING INITIAL CONCRETE POUR

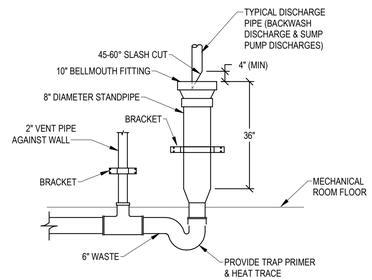
5 FLOOR DRAIN INSTALLATION DETAIL

SCALE: NONE



1 PIPE SUPPORT

SCALE: NONE



NOTE:
WRAP TRAP WITH 1" INSULATION. INSULATION SHALL BE SUITABLE FOR WET AREA INSTALLATION & USE WITH ELECTRIC HEAT TRACE CABLE.

2 STANDPIPE DRAIN ASSEMBLY DETAIL

SCALE: NONE

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REV #	DATE OF REV

DRAWN BY: KT
CHECKED BY: JB/ZK
DATE: OCTOBER 21, 2026
SHEET NAME: DETAILS
SHEET #: M5.1

SYMBOL LEGEND

SYMBOL	DESCRIPTION
AHU-01	EQUIPMENT CALLOUT.
	HOME RUN
	CONDUIT CONCEALED IN GROUND OR FLOOR
	CONDUIT CONCEALED IN CEILING OR WALL
	CONDUIT DOWN
	CONDUIT UP
	EQUIPMENT CONNECTION, SEE EQUIPMENT CONNECTION SCHEDULES FOR SPECIFIC REQUIREMENTS.
	SPECIAL PURPOSE RECEPTACLE
	SPECIAL EQUIPMENT CONNECTION
A	DUPLEX RECEPTACLE, GFCI TYPE, A = ABOVE COUNTER, E = EMERGENCY, IG = ISOLATED GROUND.
	4 PLEX RECEPTACLE
A	4 PLEX RECEPTACLE, GFCI TYPE, A = ABOVE COUNTER, E = EMERGENCY, IG = ISOLATED GROUND.
A	DUPLEX RECEPTACLE, A = ABOVE COUNTER
A	DUPLEX RECEPTACLE, ISOLATED GROUND TYPE, A = ABOVE COUNTER, E = EMERGENCY
	FLUSH FLOOR BOX WITH DEVICES AS INDICATED
J	CODE SIZED JUNCTION BOX WITH COVER PLATE
	DISCONNECT SWITCH
F	FUSED DISCONNECT SWITCH
	LIGHTING OR POWER PANEL
K	KIRK KEY INTERLOCK
GAP	GENERATOR ANNUNCIATOR PANEL
	MOTOR CONNECTION
$	SINGLE-POLE SWITCH
LV $	LOW-VOLTAGE SWITCH
OC $	WALL MOUNT OCCUPANCY SENSOR SWITCH
	LIGHT FIXTURE, SEE SCHEDULE FOR TYPE
	LIGHT FIXTURE, SEE SCHEDULE FOR TYPE
	CEILING STRIP LIGHT FIXTURE, SEE SCHEDULE FOR TYPE
	LIGHT FIXTURE, SHADING INDICATES EMERGENCY BATTERY BACKUP
	WALL MOUNTED LIGHT, SEE SCHEDULE FOR TYPE
	BOLLARD OR POLE MOUNTED LIGHT, SEE SCHEDULE FOR TYPE
	EXIT LIGHT, SHADING INDICATES SIGN DIRECTION
	EXIT LIGHT WITH ARROWS, SHADING INDICATES SIGN DIRECTION
P	SITE PLAN OVERHEAD POWER LINE
A	SITE PLAN PRIMARY UNDERGROUND ELECTRICAL DUCT
E E E	SITE PLAN EXISTING UNDERGROUND ELECTRICAL DUCT
T	SITE PLAN PAD-MOUNTED TRANSFORMER
S	SITE PLAN LOOP FEED PAD-MOUNTED OIL SWITCH
P	SITE PLAN POWER POLE
ATS	AUTOMATIC TRANSFER SWITCH
G	GENERATOR
(E)MH-#X	EXISTING MANHOLE
(N)MH-#X	NEW MANHOLE
	SECURITY CAMERA

ABBREVIATION LIST

A, AMP	AMPERE
ACP	ACCESSIBLE CARD PATH
ADA	AMERICAN DISABILITY ACT
AF	AMP FRAME
AFC	AVAILABLE FAULT CURRENT
AFCI	ARC FAULT CIRCUIT INTERRUPTER
AFF	ABOVE FINISHED FLOOR
AG	ABOVE GROUND
AT	AMP TRIP
ATS	AUTOMATIC TRANSFER SWITCH
AL	ALUMINUM
BCT	BONDING CONDUCTOR FOR TLECOMMUNICATIONS
BKR	BREAKER
C	CONDUIT
CKT	CIRCUIT
CO	CONDUIT AND PULL-ROPE ONLY
COMM	COMMUNICATION
CTRL	CONTROL
CU	COPPER
(E)	EXISTING
EC, E.C.	ELECTRICAL CONTRACTOR
ELEC	ELECTRICAL
EM	EMERGENCY
EQPT	EQUIPMENT
(F)	FUTURE
FA	FIRE ALARM
FDR	FEEDER
G, GND	GROUND
GC, G.C.	GENERAL CONTRACTOR
HH	HANDHOLE
IDF	INTERMEDIATE DISTRIBUTION FRAME
J-BOX	JUNCTION BOX
LCP	LIGHTING CONTROL PANEL
LIU	LINE INTERFACE UNIT
LTG	LIGHTING
LTS	LIGHTS
LV	LOW-VOLTAGE
MH	MANHOLE
MM	MULTI-MODE
N	NEUTRAL
NEC	NATIONAL ELECTRICAL CODE
OC	ON-CENTER
OFCI	OWNER-FURNISHED CONTRACTOR-INSTALLED
OFOI	OWNER-FURNISHED OWNER-INSTALLED
OL	OVERLOAD
P	POLE
PB	PULLBOX, PUSHBUTTON
POS	POINT OF SERVICE
PRI	PRIMARY
(G)	REVISED
REF	REFERENCE, REFRIGERATOR
SEC	SECONDARY
SM	SINGLE-MODE
SOW	SCOPE OF WORK
SPECS	SPECIFICATIONS
SS	STAINLESS STEEL
SW	SWITCH
TEL	TELEPHONE
TC	TELECOMMUNICATION
TGB	TELECOMMUNICATIONS BUS BAR
TMGB	TELECOMMUNICATIONS MAIN GROUNDING BUS BAR
THRU	THROUGH
(TYP)	TYPICAL
UG	UNDERGROUND
UNO	UNLESS NOTED OTHERWISE
VLT	VAULT
W	WIRE, WATT
WP	WEATHERPROOF
(X)	EXISTING TO BE REMOVED

GENERAL REQUIREMENTS

1. PROVIDE COMPLETE WORK FOR REQUIREMENTS AS DESCRIBED ON LEGEND.
2. ALL FLUSH MOUNT EQUIPMENT, CABINETS, AND PANELBOARDS SHALL HAVE FACTORY TYPE FLUSH MOUNT TRIM KIT FOR COMPLETE INSTALLATION.
3. PROVIDE ALL MATERIAL AND LABOR RELATED TO THE INSTALLATION OF ELECTRICAL DEVICES PENETRATING INTO OR THROUGH FIRE RATED WALLS, FLOORS, OR CEILINGS SUCH THAT THE FIRE RATING OF THE WALL IS MAINTAINED.
4. DO NOT TAKE MEASUREMENTS FROM PLANS FOR DEVICE LOCATIONS. FIELD VERIFY EXACT DEVICE, EQUIPMENT LOCATIONS, AND MOUNTING HEIGHTS WITH OWNER'S REPRESENTATIVE FOR PROPER INSTALLATION.
5. BRANCH CIRCUIT HOME RUNS ARE NOT INDICATED WITH NUMBER OF CONDUCTORS/ WIRES. PROVIDE ALL BRANCH CIRCUIT CONDUCTORS/ WIRES AS REQUIRED FOR COMPLETE OPERATION OF ALL DEVICES AND EQUIPMENT INDICATED. PROVIDE INDIVIDUAL NEUTRALS FOR EACH CIRCUIT.
6. REFER TO EQUIPMENT SCHEDULES FOR WIRING REQUIREMENTS NOT INDICATED ON POWER PLANS.
7. PROVIDE ALL WIRING TO PANELS AND POWER DISTRIBUTION EQUIPMENT IN ACCORDANCE WITH ONE-LINE POWER DIAGRAM.
8. INCLUDE COST OF PROVIDING ALL ELECTRICAL CONNECTIONS AS REQUIRED FOR FULL OPERATION OF ALL OWNER FURNISHED, CONTRACTOR INSTALLED EQUIPMENT. SEE ARCHITECTURAL DRAWINGS TO VERIFY LOCATIONS.
9. COORDINATE PAINTING WORK OF ELECTRICAL ITEMS WITH GENERAL CONTRACTOR. SEE PAINTING SPECIFICATIONS FOR REQUIREMENTS.
10. PROVIDE SEPARATE NEUTRALS FOR ALL BRANCH CIRCUITS.
11. WIRING SYSTEMS SHALL BE CONCEALED WHERE POSSIBLE, EXCEPT IN ELECTRICAL ROOM, MECHANICAL ROOM, AND UTILITY AREAS, OR AS OTHERWISE NOTED.
12. PROVIDE SURFACE METAL RACEWAY AS WIRING METHOD WHERE OUTLETS AND WIRING CANNOT BE CONCEALED.
13. EXTERIOR MOUNTED ELECTRICAL DEVICES (SUCH AS DISCONNECT SWITCH, STARTER, SPEAKER, FIRE ALARM HORN, ETC.) AND COVERS SHALL BE NEMA-3R WEATHERPROOF RATED.
14. PROVIDE CONDUIT AND WIRE FROM ALL HVAC UNITS 2000 CFM OR ABOVE TO FIRE ALARM PANEL FOR HVAC UNIT CONTROL. CONDUIT AND WIRE MAY NOT BE INDICATED IN ELECTRICAL DRAWINGS.
15. PROVIDE TEMPORARY POWER FOR CONSTRUCTION. TEMPORARY POWER MAY BE IN THE FORM OF PORTABLE GENERATOR SET; CONNECTION TO UTILITIES COMPANY'S POWER POLE OR EXISTING FACILITY'S ELECTRICAL SYSTEM.
16. VERIFY WITH CABINET INSTALLER FOR ALL CABINET LOCATIONS, DIMENSIONS, AND COUNTER HEIGHTS PRIOR TO OUTLET ROUGH-IN. OUTLETS LOCATED ABOVE COUNTER SHALL BE INSTALLED TO CENTERLINE ABOVE COUNTERTOP BACKSPLASH, AS DIRECTED OR INDICATED IN SPECIFICATIONS. VERIFY HEIGHT WITH OWNER'S REPRESENTATIVE OF ANY LOCATION THAT CANNOT ACCOMMODATE MOUNTING HEIGHT.
17. INSTALLATION OF UNDERGROUND WIRING SYSTEMS SHALL INCLUDE EXCAVATION, CUTTING, PATCHING, BACKFILL, AND COMPACTION. DO NOT CUT OR DAMAGE ANY EXISTING UTILITIES, STRUCTURAL MEMBERS, OR BUILDING FOUNDATIONS. VERIFY EXISTING CONDITIONS PRIOR TO EXCAVATION WORK. INCLUDE COST FOR UNDERGROUND LOCATOR SERVICE TO IDENTIFY LOCATIONS OF EXISTING COMPONENTS. HAND EXCAVATE IN LOCATIONS WHERE EXISTING UNDERGROUND COMPONENTS ARE SUBJECT TO DAMAGE. REPAIR DAMAGE TO EXISTING UTILITIES OR BUILDING STRUCTURE TO OWNER'S SATISFACTION AT THE CONTRACTORS EXPENSE.
18. ALL ONE-LINE DIAGRAMS AND RACEWAY ROUTING ARE SCHEMATIC AND DO NOT SHOW EXACT PHYSICAL ARRANGEMENT OF EQUIPMENT ON DRAWINGS. ALL JUNCTION BOXES, AND PULLBOXES SHOWN ARE MINIMUM REQUIREMENTS. PROVIDE FITTINGS AND PULLBOXES OF ADEQUATE SIZE IN RACEWAY SYSTEMS WHEREVER NECESSARY OR REQUIRED BY NATIONAL ELECTRICAL CODE. PROVIDE EXPANSION JOINT FITTINGS FOR RACEWAY PASSING THROUGH NEW OR EXISTING EXPANSION JOINTS INSTALLED BETWEEN BUILDINGS. VERIFY EXACT LOCATIONS AND DETAILS OF EXPANSION JOINTS PRIOR TO WORK. COORDINATE ALL RACEWAY ROUTING, PULLBOXES, AND EQUIPMENT LOCATIONS WITH OTHER TRADES TO AVOID CONFLICTS OF EQUIPMENT INSTALLATIONS. ALL EMPTY CONDUITS SHALL HAVE PULL WIRES.

GENERAL REQUIREMENTS - CONT.

19. CONDUIT OR OTHER ELECTRICAL COMPONENTS SHALL NOT BE INSTALLED IN STRUCTURAL CONCRETE UNLESS SPECIFICALLY INDICATED ON THE DRAWINGS OR APPROVED BY STRUCTURAL ENGINEER.
20. PROVIDE ELECTRICAL CONNECTION FOR ALL FAN SPEED SWITCHES. COORDINATE LOCATION OF CONNECTIONS WITH MECHANICAL CONTRACTOR.
21. COORDINATE ALL ELECTRICAL WORK WITH OTHER TRADES TO INSURE PROPER AND ADEQUATE INTERFACE OF THEIR WORK WITH THE WORK SHOWN ON THESE DOCUMENTS. CONTRACTOR SHALL PROVIDE COORDINATED SHOP DRAWINGS FOR APPROVAL PRIOR TO FABRICATION AND INSTALL
22. ALL FIELD WIRING SHALL REQUIRE AN ELECTRICAL PERMIT AND SHALL BE PERFORMED BY A LICENSED ELECTRICIAN.
23. ALL NEW ELECTRICAL ENCLOSURES (INCLUDING THOSE PROVIDED WITH EQUIPMENT OR SYSTEMS) IN SPRAY PARK MECHANICAL ROOMS OR CHEMICAL STORAGE ROOMS SHALL BE NEMA 4X RATED.
24. SPRAY PARK WORK SHALL BE COMPLETED IN ACCORDANCE WITH WAC 246-260 AND THE REQUIREMENTS OF PUBLIC HEALTH & SAFETY - KING COUNTY AND THE WASHINGTON STATE DEPARTMENT OF HEALTH.
25. ALL ELECTRICAL WORK IN PUMP ROOM, CHEMICAL STORAGE ROOMS, AND AT SPRAY PAD SHALL COMPLY WITH ALL REQUIREMENTS OF NEC ARTICLE 680.
26. PROVIDE GROUNDING & BONDING PER NEC ARTICLE 680 FOR ALL METAL COMPONENTS AT SPRAY PAD, INCLUDING BUT NOT LIMITED TO ALL WATER FEATURES AND SPRAY PAD REBAR REINFORCEMENT.

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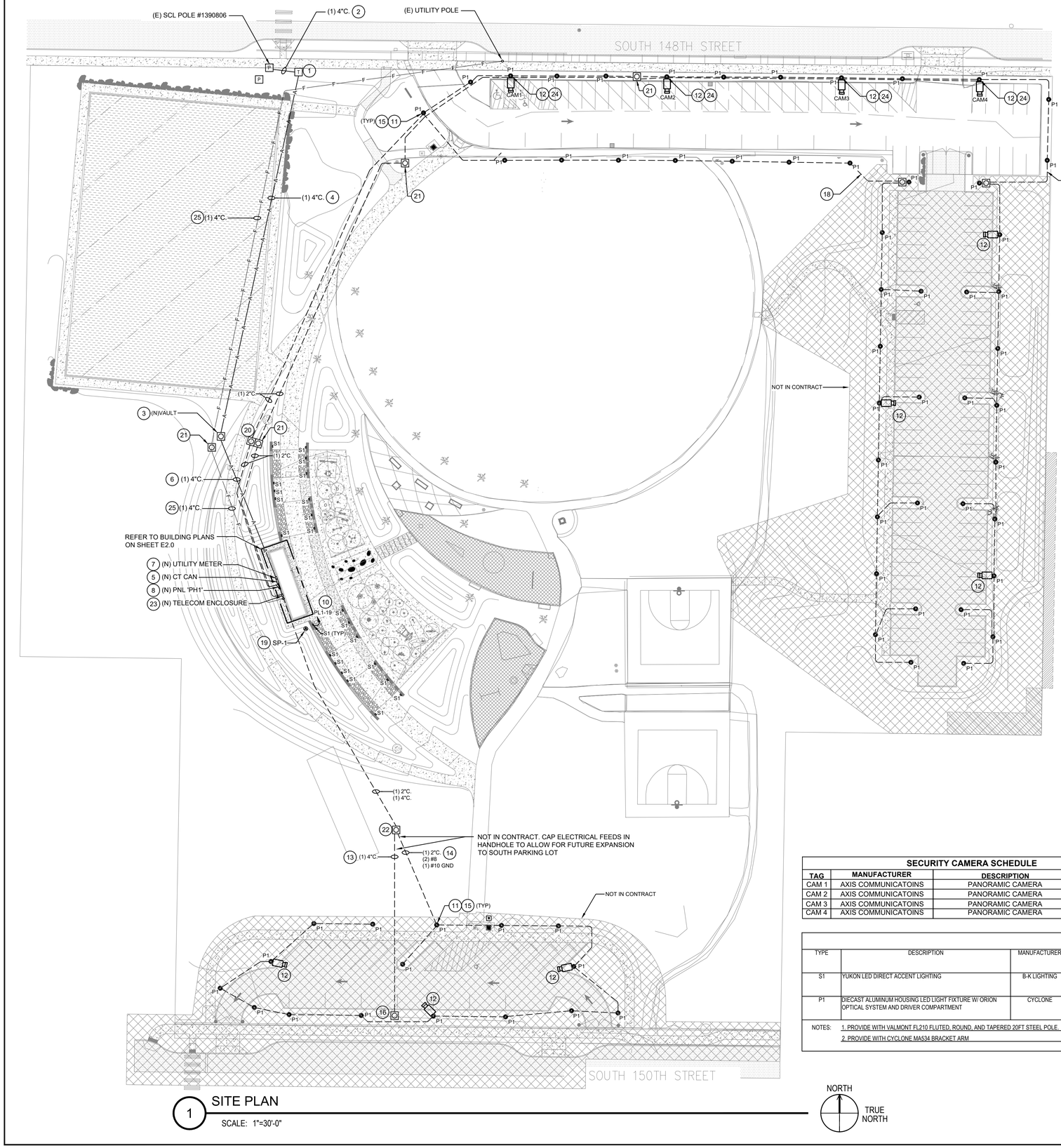
REV #	DATE OF REV

DRAWN BY	AJW
CHECKED BY	MER
DATE	OCTOBER 28, 2026

SHEET NAME
LEGEND, ABBREVIATIONS LIST, AND GENERAL REQUIREMENTS

SHEET # 1

E0.1



1 SITE PLAN

SCALE: 1"=30'-0"

NORTH

TRUE NORTH

GENERAL NOTES

1. VISIT AND EXAMINE THE SITE PRIOR TO INITIATION OF WORK TO ASCERTAIN THE CONDITIONS AND LIMITS OF DEMOLITION AND CONSTRUCTION.
2. REFER TO ELECTRICAL FEEDER SCHEDULE ON SHEET E2.0 FOR CONDUIT AND CONDUCTOR SIZES.
3. ALL ELECTRICAL WORK IN MECHANICAL EQUIPMENT ROOM AND CHEMICAL STORAGE ROOMS TO MEET NFPA 70 ARTICLE 680 REQUIREMENTS.
4. CONTRACTOR TO PROVIDE EQUIPOTENTIAL BONDING LOOP ACROSS ALL SPRAY AREAS AND ELEMENTS AS REQUIRED BY NEC 680.26.

PLAN NOTES

1. PROVIDE CONCRETE TRANSFORMER PAD PER SEATTLE CITY & LIGHT REQUIREMENTS. TRANSFORMER PROVIDED BY SEATTLE CITY & LIGHT.
2. PROVIDE 4" PVC SCHEDULE 40 CONDUIT FOR PRIMARY FEEDER FROM EXISTING POWER POLE TO TRANSFORMER PER SEATTLE CITY & LIGHT REQUIREMENTS. PRIMARY CONDUCTORS TO BE PROVIDED BY ELECTRICAL CONTRACTOR AND TERMINATED BY SEATTLE CITY & LIGHT. PROVIDE 20' OF SLACK AT EXISTING POWER POLE.
3. PROVIDE ELECTRICAL VAULT PER SEATTLE CITY & LIGHT REQUIREMENTS.
4. PROVIDE 4" PVC SCHEDULE 40 CONDUIT FOR SECONDARY FEEDER FROM UTILITY TRANSFORMER TO UTILITY VAULT.
5. PROVIDE CT ENCLOSURE PER SEATTLE CITY & LIGHT REQUIREMENTS. SEE ONE-LINE DIAGRAM ON SHEET E3.0 FOR MORE INFORMATION.
6. PROVIDE 4" PVC SCHEDULE 40 CONDUIT FROM UTILITY VAULT TO CT ENCLOSURE PER SEATTLE CITY & LIGHT REQUIREMENTS. SECONDARY CONDUCTORS TO BE PROVIDED AND TERMINATED BY ELECTRICAL CONTRACTOR.
7. PROVIDE UTILITY METER ENCLOSURE PER SEATTLE CITY & LIGHT REQUIREMENTS.
8. PROVIDE NEW 480Y/277V SERVICE RATED PANEL. SEE ONE-LINE ON SHEET E3.0 FOR MORE INFORMATION.
9. PROVIDE 480V/3PH CONNECTION FOR SUMP PUMP 'SP-1'. SEE EQUIPMENT SCHEDULE ON SHEET E2.0 FOR FEEDER INFORMATION. COORDINATE CONNECTION POINTS WITH MECHANICAL CONTRACTOR.
10. PROVIDE NEW RECESSED LIGHT FIXTURES IN NEW RETAINING WALL. COORDINATE EXACT LOCATION WITH LANDSCAPE ARCHITECT. SEE LUMINAIRE SCHEDULE ON THIS SHEET FOR ADDITIONAL INFORMATION.
11. PROVIDE NEW STEEL TAPERED LIGHT POLE WITH HANGING LIGHT FIXTURE. REFER TO LUMINAIRE SCHEDULE ON THIS SHEET FOR ADDITIONAL INFORMATION.
12. PROVIDE T98A17-VE ENCLOSURE FOR MOUNTING CAMERA. ENCLOSURE INCLUDES MEDIA CONVERTER SWITCH, MOUNTING PLATE, MID SPAN, AND POWER SUPPLY. PROVIDE 2-STRAND OM3 ARMORED FIBER FROM TELECOM ENCLOSURE TO CAMERAS ALL DAISY CHAINED BACK TO EXTERIOR TELECOMM ENCLOSURE. . PROVIDE SFP MODULES AT EACH END OF EACH CONNECTION POINT. SEE DETAIL ON SHEET E3.0 FOR ADDITIONAL INFORMATION.
13. PROVIDE NEW CONDUIT FOR FUTURE EV CHARGING STATION. STUB UP 6" ABOVE GROUND. CAP AND LABEL AFTER CONSTRUCTION. SIZE OF CONDUIT AS INDICATED ON THIS SHEET.
14. PROVIDE NEW CONDUIT AND CONDUCTORS FOR NEW PARKING LOT LIGHT FIXTURES. SIZE AS INDICATED ON THIS SHEET.
15. PROVIDE NEW HANDHOLE AT THE BASE OF THE POLE FOR MAINTENANCE ACCESS.
16. PROVIDE NEW HANDHOLE FOR FUTURE EV CHARGING STATION.
17. PROVIDE NEW POLE MOUNTED LIGHT FIXTURE, HEIGHT AS INDICATED ON THIS SHEET. PROVIDE (1) 3" CONDUIT FOR NEW FEEDERS TO NEW LIGHT. CONDUCTORS PROVIDED BY OTHERS. SEE SCHEDULE ON THIS SHEET FOR ADDITIONAL INFORMATION.
18. PROVIDE NEW CONDUIT WITH PULLSTRING TO EXPAND LIGHTING CIRCUIT WHEN NEW EAST PARKING LOT EXPANSION IS CONSTRUCTED. CAP, STUB, AND LABEL CONDUIT PRIOR TO SOIL BACKFILL.
19. MECHANICAL EQUIPMENT POWERED BY CONTROLLER. PROVIDE CONDUIT AND CONDUCTORS AS REQUIRED FOR COMPLETE OPERATION.
20. PROVIDE NEW HANDHOLE FOR ROUTING OF LIGHTING CIRCUIT TO PARKING LOT.
21. PROVIDE NEW TELECOMM HANDHOLE.
22. PROVIDE NEW HANDHOLE FOR ROUTING OF NEW LIGHTING AND EV CHARGING STATION CIRCUITS.
23. PROVIDE ALTELIX NEMA 4X ENCLOSURE 24X20X12 WITH SINGLE 120V RECEPTACLE. PROVIDE WITH AXIS FIBER AGGREGATION SWITCH. PROVIDE 120V CIRCUIT PL1-23.
24. PROVIDE A 250VA, 277-120V, NEMA 3R, TRANSFORMER MOUNTED ON POLE FOR CAMERA ENCLOSURE POWER.
25. PROVIDE 4" PVC SCHEDULE 40 CONDUIT FOR FUTURE UTILITY FIBER FEED FROM (E)UTILITY POLE TO NEW BUILDING. STUBB UP AND CAP AT BOTH ENDS.

SECURITY CAMERA SCHEDULE

TAG	MANUFACTURER	DESCRIPTION	PART NUMBER
CAM 1	AXIS COMMUNICATOINS	PANORAMIC CAMERA	Q3839-PVE
CAM 2	AXIS COMMUNICATOINS	PANORAMIC CAMERA	Q3839-PVE
CAM 3	AXIS COMMUNICATOINS	PANORAMIC CAMERA	Q3839-PVE
CAM 4	AXIS COMMUNICATOINS	PANORAMIC CAMERA	Q3839-PVE

LUMINAIRE SCHEDULE

TYPE	DESCRIPTION	MANUFACTURER	MODEL #	LAMP TYPE	CRI	DELIVERED LUMENS	COLOR TEMP	INPUT WATTS	FINISH	NOTES
S1	YUKON LED DIRECT ACCENT LIGHTING	B-K LIGHTING	S-YK-D-LED-A4080-POL-H-SD-010-MT	LED	80	486	4000	9.5	STAINLESS STEEL	
P1	DIECAST ALUMINUM HOUSING LED LIGHT FIXTURE W/ ORION OPTICAL SYSTEM AND DRIVER COMPARTMENT	CYCLONE	CY55P1A-FGF-T3M-P10-30K-277-10KV-ADS-PTL-PND508-BK-TX-	LED	70	2546	3000	22.8	BLACK	1,2

NOTES:
1. PROVIDE WITH VALMONT FL210 FLUTED, ROUND, AND TAPERED 20FT STEEL POLE.
2. PROVIDE WITH CYCLONE MA534 BRACKET ARM

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49709
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SEATAC, WA 98168

CLIENT

CITY OF SEATAC
4800 S. 188TH ST.
SEATAC, WA 98188

CONTACT:
CLYNN WILKINSON
CWILKINSON@SEATAC.GOV
(206) 973-4755

REV #	DATE OF REV

DRAWN BY AJW

CHECKED BY MER

DATE OCTOBER 28, 2026

BID SET

SHEET NAME
NEW SITE PLAN

SHEET # 2

E1.0

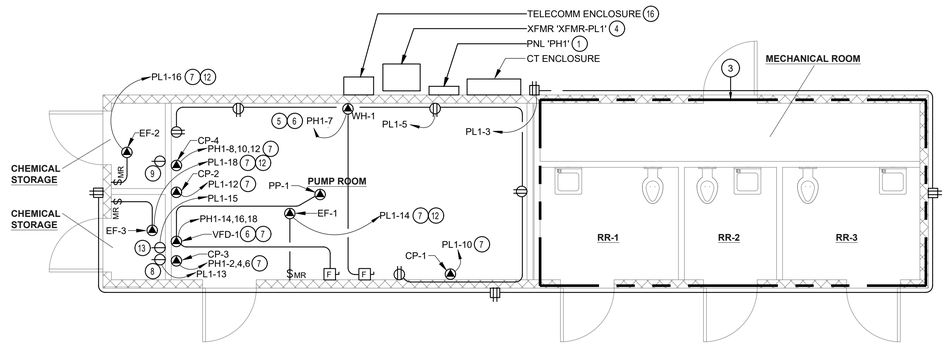
FEEDER SCHEDULE

1ϕ,2W+G (3 WIRES TOTAL)			3ϕ, 3W+G (4 WIRES TOTAL)			3ϕ, 4W+G (5 WIRES TOTAL)			3ϕ, 4W+G (5 WIRES TOTAL) - 200%N			480VΔ, 3ϕ, TRANSFORMER PRIMARY (3W+G)		
CKT ID	RACEWAY/WIRE	CKT AMPS	CKT ID	CONDUIT AND WIRE	CKT AMPS	CKT ID	CONDUIT AND WIRE	CKT AMPS	CKT ID	CONDUIT AND WIRE	CKT AMPS	CKT ID	CONDUIT AND WIRE	CKT AMPS
[12-20]	3/4"C, 2#12, #12G	20	[33-20]	3/4"C, 3#12, #12G	20	[34-20]	3/4"C, 4#12, #12G	20	[34-20N]	3/4"C, 3#12, 1#8N, #12G	20	[15H]	3/4"C, 3#10, #8G	30
[12-30]	3/4"C, 2#10, #10G	30	[33-30]	3/4"C, 3#10, #10G	30	[34-30]	3/4"C, 4#10, #10G	30	[34-30N]	3/4"C, 3#10, 1#6N, #10G	30	[30H]	1"C, 3#4, #8G	60
[12-40]	3/4"C, 2#8, #10G	40	[33-40]	3/4"C, 3#8, #10G	40	[34-40]	1"C, 4#8, #10G	40	[34-40N]	1"C, 3#8, 1#4N, #10G	40	[45H]	1-1/2"C, 3#1, #6G	100
[12-50]	3/4"C, 2#6, #10G	50	[33-50]	1"C, 3#6, #10G	50	[34-50]	1"C, 4#6, #10G	50	[34-50N]	1"C, 3#6, 1#3N, #10G	50	[75H]	1-1/2"C, 3#1/0, #6G	150
[12-60]	1"C, 2#4, #10G	60	[33-60]	1"C, 3#4, #10G	60	[34-60]	1-1/4"C, 4#4, #10G	60	[34-60N]	1-1/4"C, 3#4, 1#1N, #10G	60	[112H]	2"C, 3#3/0, #4G	200
[12-70]	1"C, 2#4, #8G	70	[33-70]	1-1/4"C, 3#4, #8G	70	[34-70]	1-1/4"C, 4#4, #8G	70	[34-70N]	1-1/4"C, 3#4, 1#1/0N, #8G	70	[150H]	2-1/2"C, 3-250KCM, #2G	250
[12-80]	1-1/4"C, 2#2, #8G	80	[33-80]	1-1/4"C, 3#2, #8G	80	[34-80]	1-1/2"C, 4#2, #8G	80	[34-80N]	1-1/2"C, 3#2, 1#2/0N, #8G	80	[225H]	2-SETS [2"C, 3#3/0, #2G]	400
[12-90]	1-1/4"C, 2#2, #8G	90	[33-90]	1-1/4"C, 3#2, #8G	90	[34-90]	1-1/2"C, 4#2, #8G	90	[34-90N]	1-1/2"C, 3#2, 1#3/0N, #8G	90	[300H]	2-SETS [3"C, 3-350KCM, #2/0G]	600
[12-100]	1-1/4"C, 2#1, #8G	100	[33-100]	1-1/2"C, 3#1, #8G	100	[34-100]	2"C, 4#1, #8G	100	[34-100N]	2"C, 3#1, 1#3/0N, #8G	100	[500H]	3-SETS [3"C, 3-300KCM, #2/0G]	800
[12-125]	1-1/4"C, 2#1, #6G	125	[33-125]	1-1/2"C, 3#1, #6G	125	[34-125]	2"C, 4#1, #6G	125	[34-125N]	2"C, 3#1, 1#250KCM N, #6G	125	[750H]	4-SETS [3"C, 3-350KCM, #3/0G]	1200
[12-150]	1-1/4"C, 2#1/0, #6G	150	[33-150]	1-1/2"C, 3#1/0, #6G	150	[34-150]	2"C, 4#1/0, #6G	150	[34-150N]	2"C, 3#1/0, 2-SETS #1/0N, #6G	150	[1000H]	4-SETS [4"C, 3-600KCM, #3/0G]	1600
[12-175]	1-1/2"C, 2#2/0, #6G	175	[33-175]	2"C, 3#2/0, #6G	175	[34-175]	2"C, 4#2/0, #6G	175	[34-175N]	2"C, 3#2/0, 2-SETS #2/0N, #6G	175			
[12-200]	1-1/2"C, 2#3/0, #6G	200	[33-200]	2"C, 3#3/0, #6G	200	[34-200]	2"C, 4#3/0, #6G	200	[34-200N]	2-1/2"C, 3#3/0, 2-SETS #3/0N, #6G	200	208Y/120V, 3ϕ, TRANSFORMER SECONDARY (4W+G)		
[12-225]	2"C, 2#4/0, #4G	225	[33-225]	2"C, 3#4/0, #4G	225	[34-225]	2-1/2"C, 4#4/0, #4G	225	[34-225N]	2-1/2"C, 3#4/0, 2-SETS #4/0N, #4G	225	CKT ID	CONDUIT AND WIRE	CKT AMPS
[12-250]	2-1/2"C, 2-250KCM, #4G	250	[33-250]	2-1/2"C, 3-250KCM, #4G	250	[34-250]	3"C, 4-250KCM, #4G	250	[34-250N]	3"C, 3-250KCM, 2-SETS #250KCM N, #4G	250	[15L]	1-1/4"C, 4#4, #8G	60
[12-300]	2-1/2"C, 2-350KCM, #4G	300	[33-300]	2-1/2"C, 3-350KCM, #4G	300	[34-300]	3"C, 4-350KCM, #4G	300	[34-300N]	3"C, 3-350KCM, 2-SETS #350KCM N, #4G	300	[30L]	2"C, 4#1, #6G	100
[12-400]	2-SETS [2"C, 2#3/0, #3G]	400	[33-400]	2-SETS [2"C, 3#3/0, #3G]	400	[34-400]	2-SETS [2-1/2"C, 4#3/0, #3G]	400	[34-400N]	2-SETS [2-1/2"C, 3#3/0, 2-SETS #3/0N, #3G]	400	[45L]	2"C, 4#1/0, #6G	150
			[33-500]	2-SETS [2-1/2"C, 3-250KCM, #2G]	500	[34-500]	2-SETS [3"C, 4-250KCM, #2G]	500	[34-500N]	2-SETS [3"C, 3-250KCM, 2-SETS #250KCM N, #2G]	500	[75L]	2-1/2"C, 4#4/0, #2G	225
			[33-600]	2-SETS [3"C, 3-350KCM, #1G]	600	[34-600]	2-SETS [3"C, 4-350KCM, #1G]	600	[34-600N]	2-SETS [3"C, 3-350KCM, 2-SETS #350KCM N, #1G]	600	[112L]	2-SETS [2-1/2"C, 4#3/0, #2G]	400
			[33-700]	2-SETS [3"C, 3-500KCM, #1/0G]	700	[34-700]	2-SETS [4"C, 4-500KCM, #1/0G]	700	[34-700N]	2-SETS [4"C, 3-500KCM, 2-SETS #500KCM N, #1/0G]	700	[150L]	2-SETS [3"C, 4-350KCM, #2/0G]	600
			[33-800]	3-SETS [3"C, 3-300KCM, #1/0G]	800	[34-800]	3-SETS [3"C, 4-300KCM, #1/0G]	800	[34-800N]	3-SETS [3"C, 3-300KCM, 2-SETS #300KCM N, #1/0G]	800	[225L]	3-SETS [3"C, 4-300KCM, #2/0G]	800
			[33-1000]	3-SETS [3"C, 3-500KCM, #2/0G]	1000	[34-1000]	3-SETS [4"C, 4-500KCM, #2/0G]	1000	[34-1000N]	3-SETS [4"C, 3-500KCM, 2-SETS #500KCM N, #2/0G]	1000	[300L]	3-SETS [4"C, 4-500KCM, #3/0G]	1000
			[33-1200]	4-SETS [3"C, 3-350KCM, #3/0G]	1200	[34-1200]	4-SETS [3"C, 4-350KCM, #3/0G]	1200	[34-1200N]	4-SETS [3"C, 3-350KCM, 2-SETS #350KCM N, #3/0G]	1200	[500L]	4-SETS [4"C, 4-600KCM, #3/0G]	1600
			[33-1600]	4-SETS [4"C, 3-600KCM, #4/0G]	1600	[34-1600]	4-SETS [4"C, 4-600KCM, #4/0G]	1600	[34-1600N]	4-SETS [4"C, 3-600KCM, 2-SETS #600KCM N, #4/0G]	1600	[750L]	6-SETS [4"C, 4-600KCM, #250KCM G]	2500
FEEDER SIZES ARE BASED ON 90C AMPACITY			[33-2000]	5-SETS [4"C, 3-600KCM, #250KCM G]	2000	[34-2000]	5-SETS [4"C, 4-600KCM, #250KCM G]	2000	[34-2000N]	5-SETS [4"C, 3-600KCM, 2-SETS #600KCM N, #250KCM G]	2000	[1000L]	8-SETS [4"C, 4-500KCM, #250KCM G]	3200

ELECTRICAL MECHANICAL EQUIPMENT SCHEDULE

EQUIPMENT TAG	VOLTAGE/PHASE	HP	KW	FLA	MCA	MOCP	PANEL/CIRCUIT	BRANCH CIRCUIT				DISCONNECT		NOTES
								RACEWAY	PHASE	N	G	SIZE	FUSE	
WATER HEATER UNIT														
WH-1	277/1	-	16	76.93	96.2	100	PH1-7	1-1/4"	2#1	-	1#8	100	100	1
VFD UNIT														
VFD-1	480/3	15	11.19	13.46	16.83	20	PH1-14,16,18	3/4"	3#12	1#12	1#12	30	20	1,3
SPRAYGROUND EQUIPMENT														
CP-1	120/1	-	-	6	7.50	20	PL1-10	3/4"	3#12	1#12	1#12	-	-	
CP-2	120/1	-	-	12.25	15.31	20		3/4"	3#12	1#12	1#12	-	-	
CP-3	480/3	-	3.5	4.21	32.00	35		3/4"	3#10	1#10	1#10	-	-	
CP-4	480/3	-	-	11.2	14.00	20		3/4"	3#12	1#12	1#12	-	-	
EXHAUST FAN UNIT														
EF-1	120/1	-	0.293	2.45	3.06	20	PL1-14	3/4"	2#12	-	1#12	-	-	6
EF-2	120/1	-	0.113	0.95	1.19	20	PL1-16	3/4"	2#12	-	1#12	-	-	6
EF-3	120/1	-	0.113	0.95	1.19	20	PL1-18	3/4"	2#12	-	1#12	-	-	6
PLUMBING PUMP UNIT														
PP-1	480/3	15	11.19	13.46	16.83	20	FED BY VFD-1	3/4"	3#12	1#12	1#12	30	20	1,5
PP-2	120/1	-	0.21	1.7	2.13	20	-	-	-	-	-	-	-	2,4
PP-3	120/1	-	-	-	-	-	-	-	-	-	-	-	-	4
SP-1	480/3	2	1.492	1.8	2.25	20	PH1-20,22,24	3/4"	3#12	1#12	1#12	-	-	2

NOTES
1. PROVIDE DISCONNECT SWITCH AND FUSES AS INDICATED ON THIS SCHEDULE.
2. PROVIDE GFCI BREAKER FOR CIRCUIT FEEDING MECH EQUIPMENT. REFER TO PANEL SCHEDULES ON E1.1 FOR ADDITIONAL INFORMATION.
3. EQUIPMENT FEEDS PP-1. SEE E1.0 FOR ADDITIONAL INFORMATION.
4. UNIT FED BY RECEPTACLE IN CHEMICAL STORAGE. SEE E1.0 FOR ADDITIONAL INFORMATION.
5. EQUIPMENT FED BY VFD-1. SEE E1.0 FOR ADDITIONAL INFORMATION.
6. MOTOR RATED SWITCH PROVIDED BY MECH. ELECTRICAL CONTRACTOR TO PROVIDE CONDUIT AND CONDUCTOR REQUIRED FOR OPERATION.



1 FIRST FLOOR POWER PLAN

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

NORTH
TRUE NORTH

GENERAL NOTES

1. VISIT AND EXAMINE THE SITE PRIOR TO INITIATION OF WORK TO ASCERTAIN THE CONDITIONS AND LIMITS OF DEMOLITION AND CONSTRUCTION.
2. REFER TO ELECTRICAL FEEDER SCHEDULE ON THIS SHEET FOR CONDUIT AND CONDUCTOR SIZES.
3. ALL ELECTRICAL WORK IN MECHANICAL EQUIPMENT ROOM AND CHEMICAL STORAGE ROOMS TO MEET NFPA 70 ARTICLE 680 REQUIREMENTS.
4. CONTRACTOR TO PROVIDE EQUIPOTENTIAL BONDING LOOP ACROSS ALL SPRAY AREAS AND ELEMENTS AS REQUIRED BY NEC 680.26.

PLAN NOTES

1. PROVIDE NEW 480V SERVICE RATED PANEL. SEE ONE-LINE ON SHEET E3.0 FOR ADDITIONAL INFORMATION.
2. PROVIDE NEW 208V, 225A, 3-PHASE PANEL. REFER TO PANEL SCHEDULE ON E4.0 FOR ADDITIONAL INFORMATION.
3. ELECTRICAL AND MECHANICAL EQUIPMENT FOR THIS AREA PROVIDED BY PRC AS PART OF PREFABRICATED BUILDING PACKAGE.
4. PROVIDE NEW 480:208Y/120V, 75KVA TRANSFORMER. REFER TO ONE-LINE DIAGRAM ON SHEET E3.0 FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
5. WATER HEATER PROVIDED BY MECHANICAL CONTRACTOR. ELECTRICAL CONTRACTOR TO PROVIDE NEW CONDUIT AND CONDUCTORS AS REQUIRED FOR COMPLETE OPERATION.
6. PROVIDE NEW DISCONNECT WITH NEW FUSES FOR NEW MECHANICAL EQUIPMENT
7. NEW EQUIPMENT PROVIDED BY MECHANICAL CONTRACTOR. ELECTRICAL CONTRACTOR TO PROVIDE NEW CONDUIT AND CONDUCTORS AS REQUIRED FOR COMPLETE OPERATION.
8. PROVIDE NEW DEDICATED OUTLET FOR NEW 'CF-1' CONTROLLER.
9. PROVIDE NEW DEDICATED OUTLET FOR 'PP-3'.
10. PROVIDE NEW LIGHT FIXTURE. REFER TO LUMINAIRE SCHEDULE ON THIS SHEET FOR ADDITIONAL INFORMATION.
11. PROVIDE NEW LIGHT SWITCH.
12. PROVIDE NEW CONDUIT, CONDUCTORS, AND ALL NECESSARY APPURTENANCES REQUIRED FOR COMPLETE OPERATION.
13. PROVIDE DEDICATED OUTLET FOR 'PP-2'.
14. PROVIDE NEW OCCUPANCY SENSOR. PROVIDE ALL CONDUIT, CONDUCTORS, AND NECESSARY APPURTENANCES REQUIRED FOR COMPLETE OPERATION.
15. PROVIDE NEW EXTERIOR WALL-MOUNTED LIGHT FIXTURE. PROVIDE CONDUIT, CONDUCTORS, AND ALL NECESSARY APPURTENANCES REQUIRED FOR COMPLETE OPERATION. REFER TO LUMINAIRE SCHEDULE ON THIS SHEET FOR ADDITIONAL INFORMATION.
16. PROVIDE ALTELIX NEMA 4X ENCLOSURE 24X20X12 WITH SINGLE 120V RECEPTACLE. PROVIDE WITH AXIS FIBER AGGREGATION SWITCH. PROVIDE 120V CIRCUIT PL1-23.

BID SET

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4800 S. 188TH ST.
SEATAC, WA 98188

CONTACT:
CLYNN WILKINSON
CWILKINSON@SEATAC.GOV
(206) 973-4755

REV #	DATE OF REV

DRAWN BY	AJW
CHECKED BY	MER
DATE	OCTOBER 28, 2026

SHEET NAME
BUILDING POWER & LIGHTING PLAN

SHEET # 3

E2.0

480/277 VOLT	3 PHASE	4 WIRE	PANEL	400 AMP BUS RATING	400 AMP MAIN BREAKER
LOCATION: -	SUPPLIED BY: SCL XFMR		(N) PH1	SCCR: 25,000 A	AFC:
SERVING: -				FEED: BOTTOM	MOUNTING: SURFACE
TYPE: TYPE 3R					

CKT	LOAD	TYPE	KVA	A/P	PHASE	A/P	KVA	TYPE	LOAD	CKT
1	PANEL 'PL-1' (1)	P	13.291	150/3	A	35/3	3.500	M	CP-3 (2)	2
3	-	-	-	-	B	-	-	-	-	4
5	-	-	-	-	C	-	-	-	-	6
7	WH-1 (2)	M	16.000	100/1	A	20/3	11.639	M	CP-4 (2)	8
9	NORTH/EAST PARKING LOT LTG (2)	L	1.094	20/1	B	-	-	-	-	10
11	SOUTH PARKING LOT LTG (2)	L	0.365	20/1	C	-	-	-	-	12
13	SPARE (2)	S	-	20/1	A	20/3	11.190	M	VFD-1 (2)	14
15	SPARE (2)	S	-	20/1	B	-	-	-	-	16
17	SPARE (2)	S	-	20/1	C	-	-	-	-	18
19	SPACE	S	-	-	A	20/3	1.492	M	SP-1	20
21	SPACE	S	-	-	B	-	-	-	-	22
23	SPACE	S	-	-	C	-	-	-	-	24
25	SPACE	S	-	-	A	20/1	-	S	SPARE (2)	26
27	SPACE	S	-	-	B	20/1	-	S	SPARE (2)	28
29	SPACE	S	-	-	C	20/1	-	S	SPARE (2)	30
31	SPACE	S	-	-	A	-	-	S	SPACE	32
33	SPACE	S	-	-	B	-	-	S	SPACE	34
35	SPACE	S	-	-	C	-	-	S	SPACE	36
37	SPACE	S	-	-	A	30/3	0.500	D	SPD (2)	38
39	SPACE	S	-	-	B	-	-	-	-	40
41	SPACE	S	-	-	C	-	-	-	-	42

PHASE LOAD PHASE A= 25.44 KVA PHASE B= 10.53 KVA PHASE C= 9.81 KVA

LOAD TYPE	APPL	DED	HEAT	KITCH	LTS		MTR	RCPT	WTR HTR	LRG MTR	TOTAL LOADS	
PANEL (N) PH1		0.50			1.46		43.82			16.00	45.78 KVA	55.07 AMP
PANEL (N) PL1		0.50			1.27		8.82	2.70		3.00	13.29 KVA	15.99 AMP
CONNECTED LOAD		1.00			2.73		52.64	2.70		16.00	59.07 KVA	71.05 AMP
CALCULATED LOAD		1.00			3.41		52.64	2.70		4.00	63.75 KVA	76.68 AMP

NOTES: *NEW WORK IN BOLD

1. PROVIDE SUB-FEED BREAKER FOR 'XFMR-PL1'. SEE ONE-LINE ON SHEET E3.0 FOR ADDITIONAL INFORMATION.
2. PROVIDE NEW BREAKER. SIZE AS INDICATED ON THIS SCHEDULE.

208/120 VOLT	3 PHASE	4 WIRE	PANEL	225 AMP BUS RATING	225 AMP MAIN BREAKER
LOCATION: -	SUPPLIED BY: XFMR-PL1		(N) PL1	SCCR: 22,000 A	AFC:
SERVING: -				FEED: BOTTOM	MOUNTING: SURFACE
TYPE: TYPE 3R					

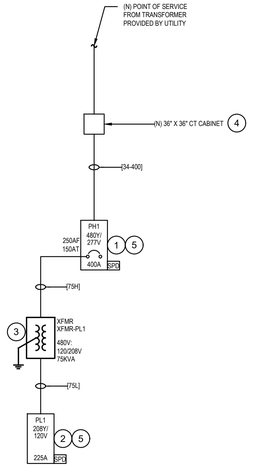
CKT	LOAD	TYPE	KVA	A/P	PHASE	A/P	KVA	TYPE	LOAD	CKT
1	MECH RM RECEPTACLE (2)	R	0.540	20/1	A	20/1	-	S	SPARE (2)	2
3	EXT CONV RECEPTACLE (2)	R	0.720	20/1	B	20/1	-	S	SPARE (2)	4
5	PUMP RM RECEPTACLE (2)	R	0.900	20/1	C	20/2	3.000	M	WH-2 (2)	6
7	HD-1 (2)	M	1.000	20/1	A	-	-	-	-	8
9	HD-2 (2)	M	1.000	20/1	B	20/1	0.720	M	CP-1 (2)	10
11	HD-3 (2)	M	1.000	20/1	C	20/1	1.470	M	CP-2 (2)	12
13	CF-1 RECEPTACLE (1)	R	0.180	20/1	A	20/1	0.293	M	EF-1 (2)	14
15	PP-2 RECEPTACLE (1)	R	0.180	20/1	B	20/1	0.113	M	EF-2 (2)	16
17	PP-3 RECEPTACLE (1)	R	0.180	20/1	C	20/1	0.113	M	EF-3 (2)	18
19	LIGHTING - S1 (2)	L	0.219	20/1	A	20/1	0.113	M	EF-4 (2)	20
21	SPARE (2)	S	-	20/1	B	20/1	-	S	SPARE (2)	22
23	TELECOM ENCLOSURE (1)	D	0.200	20/1	C	20/1	-	S	SPARE (2)	24
25	SPARE (2)	S	-	20/1	A	-	-	S	SPACE	26
27	SPARE (2)	S	-	20/1	B	-	-	S	SPACE	28
29	SPACE	S	-	-	C	-	-	S	SPACE	30
31	SPACE	S	-	-	A	-	-	S	SPACE	32
33	SPACE	S	-	-	B	-	-	S	SPACE	34
35	SPACE	S	-	-	C	-	-	S	SPACE	36
37	SPACE	S	-	-	A	30/3	0.500	D	SPD (2)	38
39	SPACE	S	-	-	B	-	-	-	-	40
41	SPACE	S	-	-	C	-	-	-	-	42

PHASE LOAD PHASE A= 4.01 KVA PHASE B= 2.90 KVA PHASE C= 5.53 KVA

LOAD TYPE	APPL	DED	HEAT	KITCH	LTS		MTR	RCPT	WTR HTR	LRG MTR	TOTAL LOADS	
CONNECTED LOAD		0.70			0.22		8.82	2.70		3.00	12.44 KVA	34.53 AMP
CALCULATED LOAD		0.70			0.27		8.82	2.70		0.75	13.25 KVA	36.77 AMP

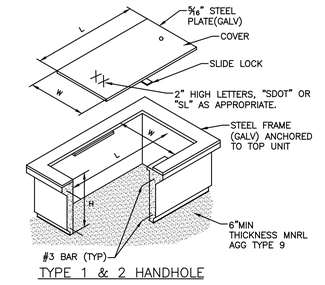
NOTES: *NEW WORK IN BOLD

1. PROVIDE GFCI BREAKER.
2. PROVIDE NEW BREAKER. SIZE AS INDICATED ON THIS SCHEDULE.



1 ELECTRICAL ONE-LINE DIAGRAM

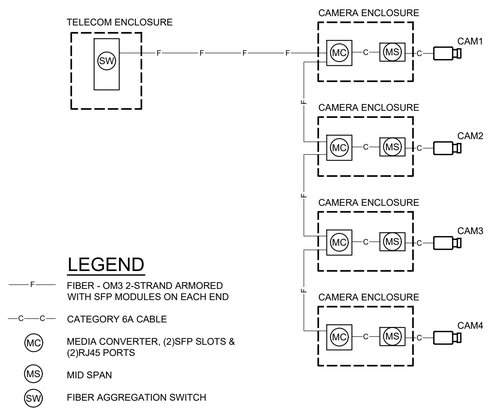
SCALE: 1/4"=1'-0"



TYPE 1 & 2 HANDHOLE

2 TYPE 1 & 2 HANDHOLE DETAIL

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



3 SECURITY CAMERA ONE LINE

SCALE: NTS

NORTH

TRUE NORTH

GENERAL NOTES

1. VISIT AND EXAMINE THE SITE PRIOR TO INITIATION OF WORK TO ASCERTAIN THE CONDITIONS AND LIMITS OF DEMOLITION AND CONSTRUCTION.
2. REFER TO ELECTRICAL FEEDER SCHEDULE ON THIS SHEET FOR CONDUIT AND CONDUCTOR SIZES.
3. ALL ELECTRICAL WORK IN MECHANICAL EQUIPMENT ROOM AND CHEMICAL STORAGE ROOMS TO MEET NFPA 70 ARTICLE 680 REQUIREMENTS.
4. CONTRACTOR TO PROVIDE EQUIPOTENTIAL BONDING LOOP ACROSS ALL SPRAY AREAS AND ELEMENTS AS REQUIRED BY NEC 680.26.

PLAN NOTES

1. PROVIDE NEW 480Y/277V SERVICE RATED PANEL.
2. PROVIDE NEW 208Y/120V, 225A, 3-PHASE PANEL.
3. PROVIDE NEW 480:208Y, 75KVA TRANSFORMER.
4. PROVIDE NEW CT CABINET.
5. PROVIDE NEW SURGE PROTECTIVE DEVICE IN NEW PANEL.

CALL TWO (2) BUSINESS DAYS BEFORE YOU DIG 1-800-424-5555

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CLIENT

CITY OF SEATAC
4800 S. 188TH ST.
SEATAC, WA 98188

CONTACT:
CLYNN WILKINSON
CWILKINSON@SEATAC.GOV
(206) 973-4755

REV #	DATE OF REV

DRAWN BY	AJW
CHECKED BY	MER
DATE	OCTOBER 28, 2026

SHEET NAME
ELECTRICAL DETAILS

SHEET # 4

E3.0