

 LOCATION MAP
NTS

Northeast Shores Development Corp. Collinwood Arts District Outdoor Theatre Green Parking Lot PHASE 1

16010 WATERLOO ROAD
CLEVELAND
CUYAHOGA COUNTY, OHIO

100% REVIEW SET - JANUARY 16, 2013

Prepared for:
Northeast Shores
317 East 156th Street,
Cleveland, Ohio 44110

PROJECT DESCRIPTION:

THE INTENT OF THE PROJECT IS TO INSTALL A 14 CAR ASPHALT PARKING LOT WITH 780 SQUARE FEET OF BIOSWALE, 1600 SQUARE FEET OF INFILTRATION BASIN, LIGHTING AND LANDSCAPING. THIS WORK WILL BE INSTALLED ALONG WATERLOO ROAD IN THE COLLINWOOD ARTS DISTRICT.

PREPARED BY:

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UNDERGROUND UTILITIES
2 WORKING DAYS
BEFORE YOU DIG
Call...800-362-2764 (Toll Free)
OHIO UTILITIES PROTECTION SERVICE
NON-MEMBERS
MUST BE CALLED DIRECTLY

GENERAL

PROJECT OBJECTIVE

THE INTENT OF THE PROJECT IS TO INSTALL A 14 CAR ASPHALT PARKING LOT WITH 780 SQUARE FEET OF BIOSWALE, 1600 SQUARE FEET OF INFILTRATION BASIN, LIGHTING AND LANDSCAPING. THIS WORK WILL BE INSTALLED ALONG WATERLOO ROAD IN THE COLLINWOOD ARTS DISTRICT.

ODOT SPECIFICATIONS

THE STANDARD CONSTRUCTION AND MATERIAL SPECIFICATIONS 2012 (CMS) OF THE STATE OF OHIO, DEPARTMENT OF TRANSPORTATION, INCLUDING CHANGES AND SUPPLEMENTAL SPECIFICATIONS LISTED IN THE PROPOSAL SHALL GOVERN THIS IMPROVEMENT PROJECT, EXCEPT AS NOTED IN THIS SET OF DRAWINGS, WITHIN THE CONTRACT AND SPECIFICATION BOOK.

REGULATIONS

ALL WORK MUST COMPLY WITH APPLICABLE FEDERAL, STATE, AND LOCAL REGULATIONS IN ALL RESPECTS, INCLUDING COMPLIANCE WITH THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION.

DO NOT INTERFERE WITH THE OPERATION OF ANY FIRE HYDRANT, FIRE CALL BOX, OR POLICE CALL BOX.

BASIS FOR DESIGN

IN THE PREPARATION OF THE WORKING DRAWINGS AND SPECIFICATIONS, NORTHEAST SHORES DEVELOPMENT CORP. HAS RELIED UPON THE SITE MAPPING PROVIDED BY NORMAN HOOVLER P.S., URS CORPORATION. PARCEL BOUNDARIES WERE PROVIDED BY THE CUYAHOGA COUNTY ENGINEER'S GIS DATA 2008. IF THERE ARE ANY QUESTIONS REGARDING THE SURVEY, PLEASE CALL NORMAN HOOVLER FROM URS CORPORATION AT 216-622-2400.

CONSTRUCTION COMMENCEMENT

THE CONTRACTOR SHALL NOT COMMENCE ANY FORM OF CONSTRUCTION WITHOUT CONTACTING THE OWNER AND THE OFFICE OF THE DIRECTOR OF ENGINEERING FROM THE CITY OF CLEVELAND TO CONFIRM ALL REQUIRED INSPECTION.

SUBMITTALS/SPECIFICATIONS/CUT SHEETS

MANUFACTURERS SUBMITTALS/SPECIFICATIONS/CUT SHEETS FOR ALL CONSTRUCTION MATERIALS SHALL BE PROVIDED PRIOR TO THE START OF CONSTRUCTION.

CONTRACTOR COORDINATION & PHASING

THE PERFORMANCE OF THIS CONTRACT WILL REQUIRE THE CONTRACTOR TO COORDINATE ALL ACTIVITY WITH THE NORTHEAST SHORES DEVELOPMENT CORP., CITY OF CLEVELAND, AND OTHER REGULATING AGENCIES, INCLUDING DEMOLITION AND CONCRETE WORK. NORTHEAST SHORES WILL BE PROCURING ALL PERMITS FOR THE PROJECT. CONTRACTOR TO COORDINATE ALL INSPECTIONS WITH NORTHEAST SHORES. CONTRACTOR TO REGISTER WITH THE CITY OF CLEVELAND FOR THE DURATION OF THE PROJECT. CONTRACTOR TO COORDINATE ALL WORK WITH THE WATERLOO ROAD STREETSCAPE PROJECT, COMMENCING IN JUNE, 2013.

PERMITTING

THE OWNER SHALL SUBMIT A NOTICE OF INTENT (N.O.I.) APPLICATION TO THE OHIO ENVIRONMENTAL PROTECTION AGENCY (E.P.A.) AND OBTAIN AUTHORIZATION FOR STORM WATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY UNDER THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (N.P.D.E.S.) OR THE LATEST FEDERAL, STATE AND/OR LOCAL REGULATIONS.

CONTRACTOR ACKNOWLEDGEMENT

BY SUBMITTING A BID, THE CONTRACTOR ACKNOWLEDGES THAT HE/SHE HAS SATISFIED HIMSELF/HERSELF AS TO THE NATURE AND LOCATION OF THE WORK, THE GENERAL AND LOCAL CONDITIONS, PARTICULARLY THOSE BEARING UPON THE HANDLING OF MATERIALS, AVAILABILITY OF LABOR AND NECESSARY UTILITIES, THE UNCERTAINTIES OF WEATHER, GROUNDWATER TABLE OR SIMILAR CONDITIONS AT THE SITE, THE CONFORMATION AND CONDITIONS OF THE SOILS AND GROUND SURFACE, THE CHARACTER OF EQUIPMENT AND FACILITIES NEEDED PRIOR TO AND DURING THE PROSECUTION OF THE WORK, AND ALL OTHER MATTER WHICH CAN IN ANY WAY AFFECT THE WORK OR COST THEREOF UNDER THIS CONTRACT. ANY FAILURE OF THE CONTRACTOR TO ACQUAINT HIMSELF/HERSELF WITH THE AVAILABLE INFORMATION CONCERNING THE CONDITIONS WILL NOT RELIEVE HIM/HER FROM RESPONSIBILITY FOR ESTIMATING PROPERLY THE DIFFICULTY AND COST OF SUCCESSFULLY PERFORMING THE WORK.

ACCESS TO PROJECT

ALL CONSTRUCTION ACCESS TO THE PROJECT SHALL BE FROM WATERLOO RD. AS SHOWN ON THE PLANS, UNLESS OTHERWISE DIRECTED BY THE OWNER OR LANDSCAPE ARCHITECT. CONTRACTOR TO PROVIDE ROAD, DRIVEWAY AND EMERGENCY VEHICULE ACCESS TO RESIDENTS AT ALL TIMES. AS SHOWN ON THE PLANS, CONTRACTOR TO PROVIDE TEMPORARY ACCESS AND BARRIERS AS SHOWN ON DRAWINGS AND AS PER CITY OF CLEVELAND CODE.

CONSTRUCTION NOISE

ACTIVITIES AND LAND USE ADJACENT TO THIS PROJECT MAY BE AFFECTED BY CONSTRUCTION NOISE. IN ORDER TO MINIMIZE ANY ADVERSE CONSTRUCTION NOISE IMPACTS, DO NOT OPERATE POWER-OPERATED CONSTRUCTION-TYPE DEVICES BETWEEN THE HOURS OF 7 PM AND 7 AM. IN ADDITION, DO NOT OPERATE AT ANY TIME ANY DEVICE IN SUCH A MANNER THAT THE NOISE CREATED SUBSTANTIALLY EXCEEDS THE NOISE CUSTOMARILY AND NECESSARILY ATTENDANT TO THE REASONABLE AND EFFICIENT PERFORMANCE OF SUCH EQUIPMENT.

WORK LIMITS

THE WORK LIMITS SHOWN ON THESE PLANS ARE FOR PHYSICAL CONSTRUCTION ONLY. PROVIDE THE INSTALLATION AND OPERATION OF ALL WORK ZONE TRAFFIC CONTROL AND WORK ZONE PEDESTRIAN CONTROL DEVICES REQUIRED BY THESE PLANS WHETHER INSIDE OR OUTSIDE THESE WORK LIMITS.

PLANT TICKETS

THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING PLANT TICKETS FOR ALL MATERIALS DELIVERED TO THE SITE. PLANT TICKETS MUST SHOW NET QUANTITY OF DELIVERED MATERIAL. MATERIAL DELIVERED OR PLACED WITHOUT PLANT TICKETS SHALL BE REMOVED AND PROPERLY DISPOSED AT THE EXPENSE OF THE CONTRACTOR.

AFFIDAVIT

MANUFACTURERS OR SUPPLIERS AFFIDAVIT FOR ALL CONSTRUCTION MATERIALS SHALL BE PROVIDED PRIOR TO THE START OF CONSTRUCTION.

UTILITIES

THE CONTRACTOR SHALL NOTIFY THE PROJECT LANDSCAPE ARCHITECT, THE OHIO UTILITIES PROTECTION SERVICE (OUPS), THE OHIO & GAS PROCEDURES UNDERGROUND PROTECTION SERVICE (OGPUPS), AND ALL NON REGISTERED UTILITY OWNERS AT LEAST TWO (2) WORKING DAYS PRIOR TO COMMENCING CONSTRUCTION OPERATIONS IN ALL AREAS
OUPS 1-800-362-2764 (CONTACT LIMITED BASIS PARTICIPANTS ONLY)
OGPUPS 1-800-925-0988

ALL UTILITIES ON THE DRAWINGS ARE SHOWN AS PER DRAWINGS PROVIDED TO URS BY THE CITY OF CLEVELAND, OSBORNE ENGINEERING, AND NORTHEAST SHORES DEVELOPMENT CORP.. CONTRACTOR IS RESPONSIBLE FOR LOCATING AND CONFIRMING LOCATION OF UTILITIES PRIOR TO CONSTRUCTION.

ALL UTILITIES AND APPURTENANCES DAMAGED DURING CONSTRUCTION SHALL BE REPLACED AND REINSTALLED IN ACCORDANCE WITH THE LATEST ODOT C.M.S. AND CITY OF CLEVELAND BUILDING CODES AT NO ADDITIONAL COST TO THE OWNER.

DISTURBANCE TO EXISTING FEATURES

CONSTRUCTION MUST NOT DAMAGE TREES, OTHER DESIRABLE VEGETATION, AND PAVEMENT TO REMAIN IN THE PROJECT AREA .

CONTRACTOR TO MARK PROPOSED TREE PLANTING, INFILTRATION BASIN AND BIOSWALE/RAINGARDEN AREAS, AND AVOID DISTURBANCE OR COMPACTION WITH CONSTRUCTION EQUIPMENT IN THESE AREAS. CONTRACTOR TO ALSO MARK OTHER CONSTRUCTION FEATURES AS NOTED IN PLANS.

ALL EXISTING APPURTENANCES (UTILITY POLES, VALVES, HYDRANTS, MANHOLES, ETC.) ARE TO BE MAINTAINED BY THE CONTRACTOR UNLESS OTHERWISE SHOWN ON THE PLANS.

TREE REMOVAL & PRUNING

WHERE TREE REMOVAL OR PRUNING IS NECESSARY FOR CONSTRUCTION, NORTHEAST SHORES DEVELOPMENT CORP. SHALL BE NOTIFIED A MINIMUM OF FORTY EIGHT (48) HOURS PRIOR TO ANY TREE PRUNING OR REMOVAL. WHERE BRANCHES AND TRUNKS ARE DAMAGED, PROPER DRESSING SHALL BE APPLIED. IT SHALL BE PROPERLY DONE. ALL WORK SHALL BE IN ACCORDANCE WITH ODOT ITEM 661.14 AND/OR CITY OF CLEVELAND CODE.

PROJECT KICKOFF MEETING

A PRECONSTRUCTION MEETING WITH THE CONTRACTOR AND REPRESENTATIVES FROM NORTHEAST SHORES DEVELOPMENT CORP. WILL OCCUR PRIOR TO ANY CONSTRUCTION ACTIVITY TO FAMILIARIZE CONTRACTOR WITH THE PLAN.

BEGINNING CONSTRUCTION

THE CONTRACTOR WILL NOTIFY NORTHEAST SHORES DEVELOPMENT CORP. SEVENTY TWO (72) HOURS PRIOR TO BEGINNING ACTUAL CONSTRUCTION.

CONSTRUCTION DEFECTS

ANY DEFECTS IN THE CONSTRUCTION, INCLUDING MATERIALS OR WORKMANSHIP, SHALL BE REPLACED OR CORRECTED BY REMOVAL AND REPLACEMENT OR OTHER OWNER APPROVED METHODS PRIOR TO ACCEPTANCE BY NORTHEAST SHORES DEVELOPMENT CORP. WITHOUT ANY EXTRA COST TO NORTHEAST SHORES DEVELOPMENT CORP..

CONSTRUCTION DOCUMENTS

THE CONTRACTOR SHALL MAINTAIN A CURRENT SET OF CONSTRUCTION DRAWINGS, SPECIFICATIONS, AND PREVAILING WAGE RATES PREPARED BY NORTHEAST SHORES DEVELOPMENT CORP. ON SITE AND SHALL RECORD ON THESE DRAWINGS THE EXACT LOCATION OF ALL SERVICE CONNECTIONS ONSITE INSTALLED AS PART OF PROJECT.

EACH WORK DAY

NO TRENCH SHALL BE LEFT OPEN OVERNIGHT, EXCEPT FOR A LENGTH NOT EXCEEDING 2 FEET, WHICH SHALL BE COVERED OVERNIGHT BY A TARP AND BLOCKED BY TEMPORARY CONSTRUCTION FENCING, AT ALL SIDES OF THE TRENCH. IN CASE WORK MUST BE SUSPENDED BECAUSE OF INCLEMENT WEATHER OR OTHER REASONS, THE UNCOMPLETED TRENCH SHALL BE TEMPORARILY BACKFILLED AT THE DIRECTION OF THE LANDSCAPE ARCHITECT WITHOUT ANY EXTRA COST TO THE OWNER.

TRAFFIC CONTROL

ANY TRAFFIC CONTROL REQUESTED OR REQUIRED BY THE CONTRACTOR WILL BE PROVIDED BY THE CONTRACTOR AT NO COST TO THE OWNER.

CLEAN-UP

AT THE CONCLUSION OF CONSTRUCTION, THE CONTRACTOR SHALL CLEAN UP ALL DEBRIS AND MATERIALS RESULTING FROM CONSTRUCTION AND SHALL RESTORE ALL SURFACES, STRUCTURES, LANDSCAPE, AND PROPERTY TO ITS ORIGINAL CONDITION TO THE SATISFACTION OF THE OWNER.

THE CONTRACTOR SHALL CLEAN THE PROJECT AREA AT THE END OF EACH DAY FOR THE DURATION OF THE PROJECT. ALL ADJOINING ROADWAYS SHALL BE FREE OF DIRT, MUD AND DEBRIS.

PROPOSED CHANGES

ALL CONTRACTOR PROPOSED CHANGES TO APPROVED DRAWINGS AND/OR SPECIFICATIONS MUST BE PREAPPROVED BY THE OWNER/ENGINEER PRIOR TO CONSTRUCTION.

PAVING MATERIAL

ALL PAVING MATERIAL MUST BE PROVIDED BY ODOT CERTIFIED SUPPLIER. WRITTEN PROOF SHALL BE REQUIRED UPON DELIVERY OF MATERIALS. THE CERTIFIED MIX DESIGN MUST BE SUBMITTED TO, AND APPROVED BY, THE OWNER PRIOR TO SCHEDULING A PRE-CONSTRUCTION MEETING.

WORK SCHEDULE CHANGE

IF ANY CHANGE IN THE WORK SCHEDULE BECOMES NECESSARY, IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE INSPECTOR TO AVOID UNNECESSARY INSPECTION COSTS. IF NO NOTIFICATION IS MADE WITH REGARD TO CANCELLATION OF WORK, THE CONTRACTOR WILL BE CHARGED FOR THE INSPECTION TIME INCURRED.

CONSTRUCTION ACTIVITIES

THE CONTRACTOR SHALL CONFINE HIS ACTIVITIES TO THE PROJECT SITE UNDER DEVELOPMENT, THE EXISTING RIGHT-OF-WAYS CONSTRUCTION AND PERMANENT EASEMENTS AND SHALL NOT TRESPASS UPON OTHER PROPERTY WITHOUT THE WRITTEN CONSENT OF THE OWNER/CONSTRUCTION MANAGER.

UTILITIES AND STRUCTURES SHOWN ON THE PLANS

THE LOCATION OF EXISTING UTILITIES AND STRUCTURES ARE SHOWN ON THE PLANS FROM DATA AVAILABLE AT THE TIME OF SURVEY AND ARE NOT NECESSARILY COMPLETE. DETERMINATION OF THE SAME SHALL BE RESPONSIBILITY OF THE CONTRACTOR. DURING CONSTRUCTION THE CONTRACTOR SHALL USE DUE DILIGENCE IN PROTECTING FROM DAMAGE ALL EXISTING UTILITIES AND STRUCTURES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR OR RESTORATION OF SAME IN ACCORDANCE WITH THE DIRECTIONS OF THE ENGINEER AND OF ANY RESULTING CONTINGENT DAMAGE.

SAFETY OF CONSTRUCTION

COMPLIANCE WITH THE OCCUPATIONAL SAFETY AND HEALTH ACT (LATEST) IS REQUIRED OF ALL CONTRACTORS ON THIS PROJECT

CONFLICT

WHERE CONFLICT ARISES BETWEEN ALL SPECIFICATIONS (BOOK OR PLAN BASED) INCLUDING CITY REQUIREMENTS, THE MORE CONSERVATIVE SPECIFICATION SHALL PREVAIL.

FINAL CLEANUP

THE CONTRACTOR SHALL CLEAN-UP ALL DEBRIS AND MATERIALS RESULTING FROM CONSTRUCTION AND SHALL RESTORE ALL SURFACES, STRUCTURES, DITCHES AND PROPERTY TO ITS ORIGINAL CONDITION TO THE SATISFACTION OF THE OWNER AND ALL APPLICABLE GOVERNMENTAL AND REGULATORY AGENCIES.

SITE

ITEM SPECIAL, CLEARING, DEMOLITION, MOBILIZATION, TEMPORARY MAINTENANCE OF TRAFFIC AND SWPPP, AS PER PLAN

CONTRACTOR SHALL PROVIDE ALL LABOR, EQUIPMENT, AND MATERIALS TO CLEAR AND GRUB AS SHOWN ON PLANS, PERFORM PROJECT MOBILIZATION, MAINTENANCE OF TRAFFIC, PERFORM ALL SWPPP MEASURES AND TO REMOVE ALL CONCRETE AS SHOWN ON DRAWINGS AND IN CONFORMANCE WITH ODOT CMS 201, 202 AND 624.

THIS INCLUDES THE REMOVAL OF GRUBBING, ROOT REMOVAL, AND TAKING ALL CHIPS AND DEBRIS ASSOCIATED WITH THIS WORK OFF SITE; ALL INCIDENTALS NECESSARY FOR CONSTRUCTION MOBILIZATION INCLUDING TEMPORARY FENCING, CONES AND TEMPORARY MEASURES AS SHOWN ON DRAWINGS; TEMPORARY MAINTENANCE OF TRAFFIC MEASURES SHOWN ON THESE DRAWINGS AND IN CONFORMANCE WITH CITY OF CLEVELAND CODES; AND INSTALL OF TEMPORARY MEASURES OF THE STORMWATER POLLUTION PREVENTION PLANS. THIS ITEM INCLUDES ALL SWPPP ITEMS AS PER PLAN INCLUDING INLET PROTECTION, CONCRETE WASHOUT AREA, TEMPORARY SEEDING, AND CONSTRUCTION ENTRANCE.

UNIT PRICE FOR ADDITIONS AND DELETIONS WILL BE BASED UPON THE ABOVE WORK DETAIL AND DRAWINGS FOR

ITEM SPECIAL, CLEARING, DEMOLITION, MOBILIZATION, TEMPORARY MAINTENANCE OF TRAFFIC AND SWPPP, LUMP SUM. OVERALL CONTRACT IS LUMP SUM.

ITEM 203 – EXCAVATION AND EMBANKMENT

CONTRACTOR SHALL FURNISH ALL LABOR, EQUIPMENT, AND MATERIALS TO PERFORM EXCAVATION AND FINISH GRADING AS SHOWN ON PLAN AND IN CONFORMANCE WITH ODOT CMS 203 AND DRAWINGS. BIOSWALE AND INFILTRATION BASIN EXCAVATION WILL NOT BE COMPACTED AND SUBBASE WILL BE SCARIFIED.

CONTRACTOR SHALL USE EXCAVATED MATERIALS IN THE WORK AREA WHEN MATERIALS CONFORM TO SPECIFICATIONS. IF NOT THAN RECYCLE OR DISPOSE OF MATERIAL ACCORDING TO ODOT 105.16 AND 105.17, CONTRACTOR IS RESPONSIBLE FOR MAINTAINING THE PROJECT AREA IN A FREE DRAINING CONDITION AT ALL TIMES. AFTER EXCAVATION AND PART OF THIS ITEM, THE CONTRACTOR SHALL MEET FINISHED GRADES AND COMPACTION IN ACCORDANCE WITH THE PLAN.

UNIT PRICE FOR ADDITIONS AND DELETIONS WILL BE BASED UPON THE ABOVE WORK DETAIL AND DRAWINGS FOR

ITEM 203, EXCAVATION AND EMBANKMENT, CY. OVERALL CONTRACT IS LUMP SUM.

PAVEMENT

ITEM SPECIAL – ASPHALT PAVEMENT

CONTRACTOR SHALL PROVIDE ALL LABOR, EQUIPMENT, AND MATERIALS TO CONSTRUCT ASPHALT PAVEMENT AS PER PLAN, DETAILS, AND IN CONFORMANCE WITH ODOT ITEM 448, 304 & 203, 407 & 408. ITEM INCLUDES ASPHALT AND FORMING, STONE BASE, PRIME COAT, TACK COAT, INTERMEDIATE COURSE, AND SURFACE COURSE, AS PER PLAN.

UNIT PRICE FOR ADDITIONS AND DELETIONS WILL BE BASED UPON THE ABOVE WORK DETAIL AND DRAWINGS FOR

ITEM SPECIAL, ASPHALT PAVEMENT, CY. OVERALL CONTRACT IS LUMP SUM.



ISSUED FOR BIDDING _____ DATE _____ BY _____

ADDENDUM REVISIONS

ADDENDUM NO	ADDENDUM DATE	BY

ISSUED FOR CONSTRUCTION _____ DATE _____ BY _____

CONSTRUCTION REVISIONS

NO.	DESCRIPTION	DATE	BY

RECORD DRAWINGS _____ DATE _____ BY _____

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DRAWN BY: JPF | CHECKED BY: KGH

JOB NO.: 13816154

SCALE:

GRAPHIC SCALE

GENERAL NOTES

COLLINWOOD ARTS DISTRICT
OUTDOOR THEATRE
GREEN PARKING LOT
PHASE 1

0002

PAVEMENT (CONT.)

ITEM SPECIAL – GRAVEL ART BASE

CONTRACTOR SHALL PROVIDE ALL LABOR, EQUIPMENT, AND MATERIALS TO CONSTRUCT GRAVEL ART BASE AS PER PLAN, DETAILS, AND IN CONFORMANCE WITH ODOT ITEM 304. ITEM INCLUDES GRAVEL AND FORMING.

UNIT PRICE FOR ADDITIONS AND DELETIONS WILL BE BASED UPON THE ABOVE WORK DETAIL AND DRAWINGS FOR

ITEM SPECIAL, GRAVEL ART BASE, CY. OVERALL CONTRACT IS LUMP SUM.

ITEM SPECIAL – TEMPORARY GRAVEL DRIVE ENTRANCE

CONTRACTOR SHALL PROVIDE ALL LABOR, EQUIPMENT, AND MATERIALS TO CONSTRUCT TEMPORARY GRAVEL DRIVE ENTRANCE AS PER PLAN, DETAILS, AND IN CONFORMANCE WITH ODOT ITEM 304. ITEM INCLUDES GRAVEL AND FORMING.

UNIT PRICE FOR ADDITIONS AND DELETIONS WILL BE BASED UPON THE ABOVE WORK DETAIL AND DRAWINGS FOR

ITEM SPECIAL, TEMPORARY GRAVEL DRIVE ENTRANCE, CY. OVERALL CONTRACT IS LUMP SUM.

DRAINAGE

CONSTRUCTION STANDARDS FOR STORM SEWERS

ALL SEWER CONSTRUCTION SHALL CONFORM TO ODOT ITEM 603, CITY OF CLEVELAND, NEORS, AND WITH THE SPECIFIC PROVISIONS INCLUDED HEREIN. ALL DRAINAGE PIPES TO BE PVC AS PER THE PLANS.

REVIEW OF DRAINAGE FACILITIES

BEFORE ANY WORK IS STARTED ON THE PROJECT AND AGAIN BEFORE FINAL ACCEPTANCE BY THE OWNER, REPRESENTATIVES OF THE OWNER AND THE CONTRACTOR SHALL MAKE AN INSPECTION OF ALL EXISTING SEWERS WHICH ARE TO REMAIN IN SERVICE AND WHICH MAY BE AFFECTED BY THE WORK. THE CONDITION OF THE EXISTING CONDUITS AND THEIR APPURTENANCE SHALL BE DETERMINED FROM FIELD OBSERVATIONS. RECORDS OF THE INSPECTION SHALL BE KEPT IN WRITING BY THE CONTRACTOR.

ALL NEW CONDUITS AND INLETS CONSTRUCTED AS A PART OF THE PROJECT SHALL BE FREE OF ALL FOREIGN MATTER AND IN A CLEAN CONDITION BEFORE THE PROJECT WILL BE ACCEPTED BY THE OWNER.

ALL EXISTING SEWERS INSPECTED INITIALLY BY THE ABOVE MENTIONED PARTIES SHALL BE MAINTAINED AND LEFT IN A CONDITION REASONABLY COMPARABLE TO THAT DETERMINED BY THE ORIGINAL INSPECTION. ANY CHANGE IN THE CONDITION RESULTING FROM THE CONTRACTOR'S OPERATIONS SHALL BE CORRECTED BY THE CONTRACTOR TO THE SATISFACTION OF THE OWNERS REPRESENTATIVE.

PAYMENT FOR ALL OPERATIONS DESCRIBED ABOVE SHALL BE INCLUDED IN THE OVERALL CONTRACT PRICE.

CROSSINGS AND CONNECTIONS TO EXISTING PIPES AND UTILITIES

WHERE PLANS PROVIDE FOR A PROPOSED CONDUIT TO BE CONNECTED TO, OR CROSS OVER OR UNDER AN EXISTING SEWER OR UNDERGROUND UTILITY, THE CONTRACTOR SHALL LOCATE THE EXISTING PIPES OR UTILITIES BOTH AS TO LINE AND GRADE BEFORE STARTING TO LAY THE PROPOSED CONDUIT.

IF IT IS DETERMINED THAT THE ELEVATION OF THE EXISTING CONDUIT, OR EXISTING APPURTENANCE TO BE CONNECTED, DIFFERS FROM THE PLAN ELEVATION OR RESULTS IN A CHANGE IN THE PLAN CONDUIT SLOPE, THE OWNERS REPRESENTATIVE SHALL BE NOTIFIED BEFORE STARTING CONSTRUCTION OF ANY PORTION OF THE PROPOSED CONDUIT WHICH WILL BE AFFECTED BY THE VARIANCE IN THE EXISTING ELEVATIONS.

IF IT IS DETERMINED THAT THE PROPOSED CONDUIT WILL INTERSECT AN EXISTING SEWER OR UNDERGROUND UTILITY IF CONSTRUCTED AS SHOWN ON THE PLAN, THE OWNER SHALL BE NOTIFIED BEFORE STARTING CONSTRUCTION OF ANY PORTION OF THE PROPOSED CONDUIT WHICH WOULD BE AFFECTED BY THE INTERFERENCE WITH AN EXISTING FACILITY.

PAYMENT FOR ALL THE OPERATIONS DESCRIBED ABOVE SHALL BE INCLUDED IN THE OVERALL CONTRACT PRICE.

ITEM SPECIAL – 6" PVC PIPE CONNECTION FROM BIOSWALE TO INFILTRATION BASIN

CONTRACTOR SHALL PROVIDE ALL LABOR, EQUIPMENT, AND MATERIALS TO CONSTRUCT 6" PVC PIPE CONNECTION FROM BIOSWALE TO INFILTRATION BASIN, AS PER PLAN, DETAILS, AND IN CONFORMANCE WITH ODOT ITEM 605. ITEM INCLUDES GRAVEL AND FORMING.

UNIT PRICE FOR ADDITIONS AND DELETIONS WILL BE BASED UPON THE ABOVE WORK DETAIL AND DRAWINGS FOR

ITEM SPECIAL, 6" PVC PIPE CONNECTION FROM BIOSWALE TO INFILTRATION BASIN, LF. OVERALL CONTRACT IS LUMP SUM.

LANDSCAPING

ITEM 651 AND 652 – TOPSOIL STOCKPILE & PLACE

CONTRACTOR IS TO FURNISH ALL EQUIPMENT, MATERIAL, AND LABOR TO STOCKPILE AND PLACE 4" TOPSOIL IN CONFORMANCE WITH ODOT CMS 651 AND 652, UNDER ALL SEEDED AREAS AND AS SHOWN ON PLANS.

UNIT PRICE FOR ADDITIONS AND DELETIONS WILL BE BASED UPON THE ABOVE WORK DETAIL AND DRAWINGS FOR

ITEM SPECIAL, TOPSOIL STOCKPILE & PLACE, CY. OVERALL CONTRACT IS LUMP SUM.

ITEM 659 – SEEDING AND MULCHING

CONTRACTOR IS TO FURNISH ALL EQUIPMENT, MATERIAL, AND LABOR TO SEED, MULCH AND REPAIR ANY GRASS AREAS THAT ARE DISTURBED DURING CONSTRUCTION AS PER ODOT 659 AND AS PER PLAN.

UNIT PRICE FOR ADDITIONS AND DELETIONS WILL BE BASED UPON THE ABOVE WORK DETAIL AND DRAWINGS FOR

ITEM SPECIAL, SEEDING AND MULCHING, CY. OVERALL CONTRACT IS LUMP SUM.

ITEM SPECIAL – HARDWOOD MULCH

CONTRACTOR IS TO FURNISH ALL EQUIPMENT, MATERIAL, AND LABOR TO FURNISH AND PLACE HARDWOOD MULCH IN CONFORMANCE WITH ODOT CMS 661 AND AS SHOWN ON PLANS. MULCH SHALL BE FINE, DOUBLE SHREDDED ORGANIC HARDWOOD, FREE OF WEED SEEDS, ROOTS, OR ANY OTHER SUBSTANCE NOT CONSISTING OF EITHER HOLE OR BRANCH WOOD AND BARK. THE MULCH SHALL BE UNIFORMLY APPLIED IN 3 INCH DEPTH IN AREAS SHOWN ON PLANS. DO NOT FERTILIZE.

UNIT PRICE FOR ADDITIONS AND DELETIONS WILL BE BASED UPON THE ABOVE WORK DETAIL AND DRAWINGS FOR

ITEM SPECIAL, HARDWOOD MULCH, CY. OVERALL CONTRACT IS LUMP SUM.

ITEM SPECIAL – BIOSWALE/INFILTRATION BASINS

CONTRACTOR SHALL FURNISH ALL LABOR, EQUIPMENT AND MATERIALS NECESSARY TO INSTALL BIOSWALES AND, INFILTRATION BASIN AREAS AS SHOWN ON PLAN.

ITEM INCLUDES MATERIAL AND INSTALLATION OF: BIOSWALE SOIL, WEED BARRIER MAT, FILTER FABRIC, UNDERDRAINS AND CONNECTORS, CONNECTION TO CATCH BASINS, OVERFLOW PIPES, MODIFICATION TO CATCH BASIN GRADE, SMART POTS AND WASHED #57 STONE.

BIOSWALE SOIL SHALL HAVE THE FOLLOWING ATTRIBUTES (UNLESS EXISTING SOIL IS APPROVED FOR REUSE BY LANDSCAPE ARCHITECT):

- * TEXTURE CLASS: SANDY LOAM OR LOAMY SAND. HAVING NO LESS THAN 72% SAND AND NO GREATER THAN 10% CLAY CONSIDERING ONLY THE MINERAL FRACTION OF THE SOIL.
- * CONTRACTOR SHALL SUBMIT BIOSWALE SOIL SAMPLE OR PRODUCT SHEET FOR APPROVAL BY LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.

SMART POTS AS MANUFACTURED BY HIGH CALIPER GROWING – ROOT CONTROL INC. OKLAHOMA CITY, OK 73116 (P) 405-842-7700. REFER TO DRAWINGS FOR SMART POT SIZES.

WEED BARRIER MAT SHALL BE BLACK, NON WOVEN, GEOTEXTILE FABRIC WHICH IS UV STABILIZED, PERMEABLE TO AIR AND WATER, AND A MINIMUM WEIGHT OF 2 OZ/SQ YD. WEED MAT SHALL PROVIDE WEED CONTROL AND BE GUARANTEED BY MANUFACTURER TO LAST FOR 15 YEARS IN EXPOSED CONDITIONS. WEED MAT SHALL BE STAPLED TO SOIL AS PER MANUFACTURER'S DIRECTIONS, WITH MULCH PLACED ON TOP OF WEED MAT.

UNIT PRICE FOR ADDITIONS AND DELETIONS WILL BE BASED UPON THE ABOVE WORK DETAIL AND DRAWINGS FOR

ITEM SPECIAL, BIOSWALE/INFILTRATION BASIN, SF. OVERALL CONTRACT IS LUMP SUM.

ITEM 651 – DECIDUOUS TREE, AS PER PLAN

CONTRACTOR IS TO FURNISH ALL EQUIPMENT, MATERIAL, AND LABOR TO FURNISH AND PLACE DECIDUOUS TREES LISTED IN CONFORMANCE WITH ODOT CMS 651 AND AS PER PLAN. THIS INCLUDES SOIL BACKFILL AND TREE STABILIZATION.

UNIT PRICE FOR ADDITIONS AND DELETIONS WILL BE BASED UPON THE ABOVE WORK DETAIL AND DRAWINGS FOR

ITEM 651, DECIDUOUS TREE, EA. OVERALL CONTRACT IS LUMP SUM.

ITEM 651 – SHRUBS

CONTRACTOR IS TO FURNISH ALL EQUIPMENT, MATERIAL, AND LABOR TO FURNISH AND PLACE SHRUBS LISTED IN CONFORMANCE WITH ODOT CMS 651 AND AS PER PLAN.

UNIT PRICE FOR ADDITIONS AND DELETIONS WILL BE BASED UPON THE ABOVE WORK DETAIL AND DRAWINGS FOR

ITEM 651, SHRUBS, EA. OVERALL CONTRACT IS LUMP SUM.

ITEM 651 – PERENNIALS

CONTRACTOR IS TO FURNISH ALL EQUIPMENT, MATERIAL, AND LABOR TO FURNISH AND PLACE PERENNIALS LISTED IN CONFORMANCE WITH ODOT CMS 651 AND AS PER PLAN.

UNIT PRICE FOR ADDITIONS AND DELETIONS WILL BE BASED UPON THE ABOVE WORK DETAIL AND DRAWINGS FOR

ITEM 651, PERENNIALS, EA. OVERALL CONTRACT IS LUMP SUM.

ITEM 651 – BULBS

CONTRACTOR IS TO FURNISH ALL EQUIPMENT, MATERIAL, AND LABOR TO FURNISH AND PLACE BULBS LISTED IN CONFORMANCE WITH ODOT CMS 651 AND AS PER PLAN.

UNIT PRICE FOR ADDITIONS AND DELETIONS WILL BE BASED UPON THE ABOVE WORK DETAIL AND DRAWINGS FOR

ITEM 651, BULBS, EA. OVERALL CONTRACT IS LUMP SUM.

ITEM 838 – GABION BASKET

CONTRACTOR IS TO FURNISH ALL EQUIPMENT, MATERIAL, AND LABOR TO INSTALL GABION BASKETS AS PER PLAN AND AS PER ODOT 838. ITEM INCLUDES ALL ITEMS TO COMPLETE GABION WALL AS SHOWN, INCLUDING: STONE, BASKETS, AND TIES.

UNIT PRICE FOR ADDITIONS AND DELETIONS WILL BE BASED UPON THE ABOVE WORK DETAIL AND DRAWINGS FOR

ITEM 838, GABION BASKET, CY. OVERALL CONTRACT IS LUMP SUM.

ITEM SPECIAL – CONCRETE MOW EDGE

CONTRACTOR SHALL PROVIDE ALL LABOR, EQUIPMENT, AND MATERIALS TO CONSTRUCT CONCRETE MOW EDGE AS PER PLAN, DETAILS, AND IN CONFORMANCE WITH ODOT ITEM 609. ITEM INCLUDES CONCRETE, FORMING AND AGGREGATE BASE, AS PER PLAN.

UNIT PRICE FOR ADDITIONS AND DELETIONS WILL BE BASED UPON THE ABOVE WORK DETAIL AND DRAWINGS FOR

ITEM SPECIAL, CONCRETE MOW EDGE, LF. OVERALL CONTRACT IS LUMP SUM.

ELECTRICAL

ITEM SPECIAL – ELECTRICAL

CONTRACTOR IS TO FURNISH ALL EQUIPMENT, MATERIAL, AND LABOR FOR ELECTRICAL WORK AS SHOWN ON PLANS.

ITEM INCLUDES MATERIAL AND INSTALLATION OF: LIGHT FIXTURE(S) AND SUPPORT; FUSED SAFETY SWITCH; FUSES; RIGID GALVANIZED STEEL CONDUIT, CONDUIT BODIES, AND FITTINGS; 600V, TYPE THWN, SOLID COPPER WIRE; AND ASSOCIATED SPLICES, TERMINATIONS, AND APPURTENANCES.

UNIT PRICE FOR ADDITIONS AND DELETIONS WILL BE BASED UPON THE ABOVE WORK DETAIL AND DRAWINGS FOR

ITEM SPECIAL, ELECTRICAL, LUMP SUM. OVERALL CONTRACT IS LUMP SUM.

MISCELLANEOUS

ITEM 642 – PARKING LOT MARKING

CONTRACTOR SHALL PROVIDE ALL LABOR, EQUIPMENT, AND MATERIALS NEEDED TO STRIPE PARKING STALLS INCLUDING HANDICAP STRIPING, HANDICAP SYMBOLS AND NO PARKING AREAS, AS PER PLAN AND IN CONFORMANCE WITH ODOT ITEM 640, TYPE 1.

UNIT PRICE FOR ADDITIONS AND DELETIONS WILL BE BASED UPON THE ABOVE WORK DETAIL AND DRAWINGS FOR

ITEM 642, PARKING LOT MARKING, LUMP SUM. OVERALL CONTRACT IS LUMP SUM.

ITEM SPECIAL – ADA SIGN

CONTRACTOR SHALL FURNISH ALL LABOR, EQUIPMENT AND MATERIALS NECESSARY TO INSTALL ADA SIGNS AND POSTS AS PER PLAN.

UNIT PRICE FOR ADDITIONS AND DELETIONS WILL BE BASED UPON THE ABOVE WORK DETAIL AND DRAWINGS FOR

ITEM SPECIAL, ADA SIGN, EA. OVERALL CONTRACT IS LUMP SUM.

ITEM SPECIAL – CONCRETE CURB STOP

CONTRACTOR SHALL FURNISH ALL LABOR, EQUIPMENT AND MATERIALS NECESSARY TO INSTALL CONCRETE CURB STOPS AS PER PLAN.

UNIT PRICE FOR ADDITIONS AND DELETIONS WILL BE BASED UPON THE ABOVE WORK DETAIL AND DRAWINGS FOR

ITEM SPECIAL, ADA SIGN, EA. OVERALL CONTRACT IS LUMP SUM.



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ISSUED FOR CONSTRUCTION DATE _____ BY _____

CONSTRUCTION REVISIONS

NO.	DESCRIPTION	DATE	BY

RECORD DRAWINGS DATE _____ BY _____

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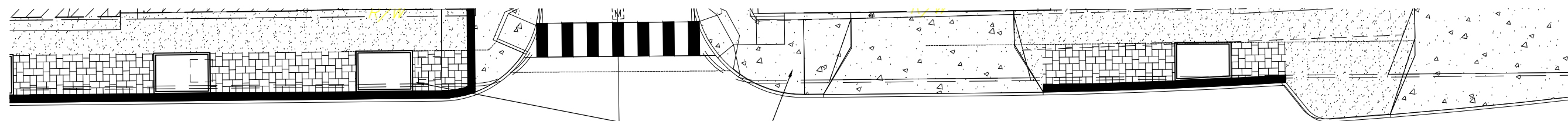
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GRAPHIC SCALE

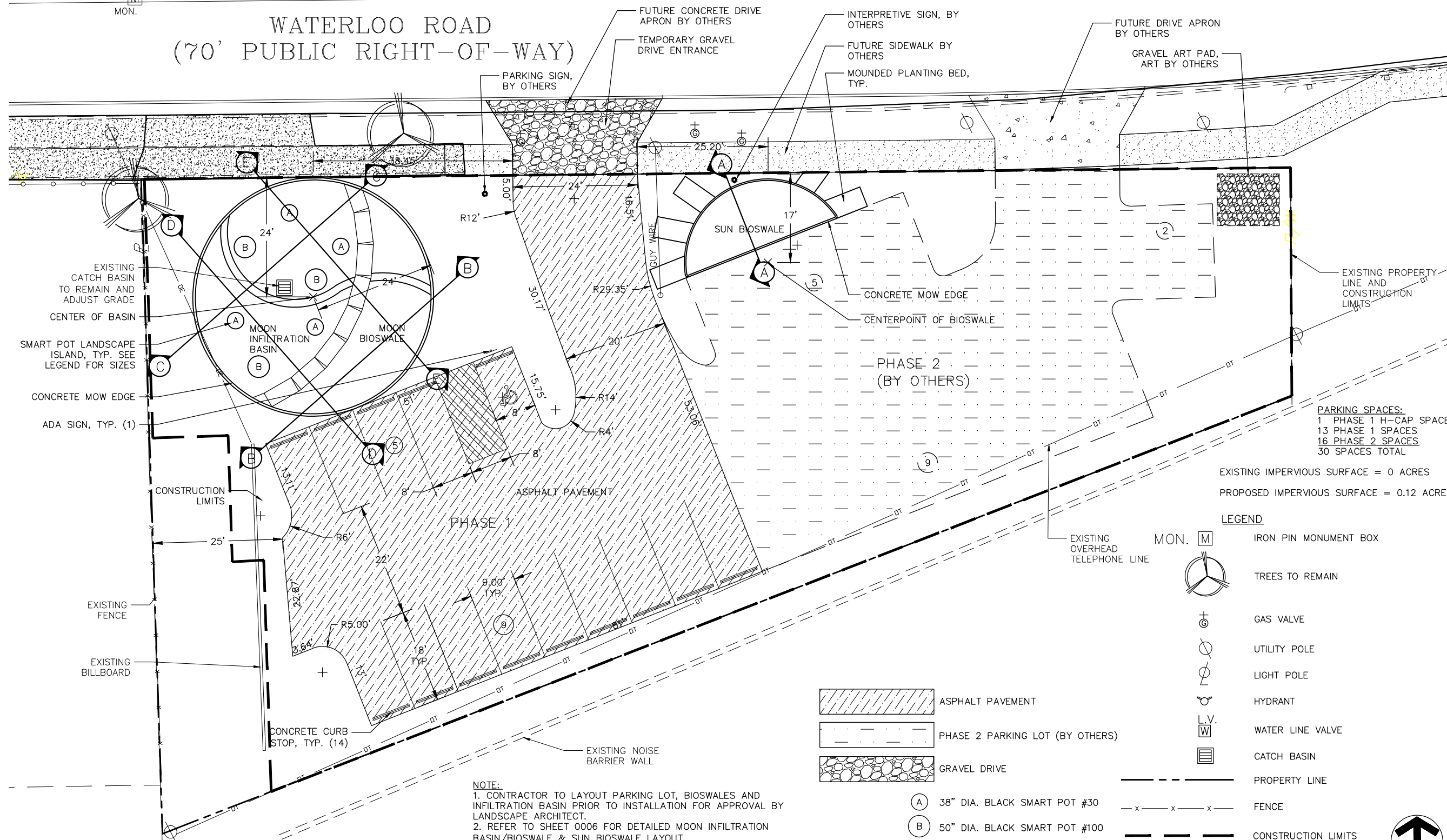
GENERAL NOTES

COLLINWOOD ARTS DISTRICT
OUTDOOR THEATRE
GREEN PARKING LOT
PHASE 1

0003



WATERLOO ROAD (70' PUBLIC RIGHT-OF-WAY)



- EXISTING CATCH BASIN TO REMAIN AND ADJUST GRADE
- CENTER OF BASIN
- SMART POT LANDSCAPE ISLAND, TYP. SEE LEGEND FOR SIZES
- CONCRETE MOW EDGE
- ADA SIGN, TYP. (1)
- EXISTING FENCE
- EXISTING BILLBOARD
- CONCRETE CURB STOP, TYP. (14)

PARKING SPACES:
 1 PHASE 1 H-CAP SPACES
 13 PHASE 1 SPACES
 16 PHASE 2 SPACES
 30 SPACES TOTAL

EXISTING IMPERVIOUS SURFACE = 0 ACRES
 PROPOSED IMPERVIOUS SURFACE = 0.12 ACRES

- LEGEND**
- MON. M IRON PIN MONUMENT BOX
 - Trees to Remain
 - ⊕ GAS VALVE
 - ⊙ UTILITY POLE
 - ⊙ LIGHT POLE
 - ⊙ HYDRANT
 - L.V. WATER LINE VALVE
 - CATCH BASIN
 - PROPERTY LINE
 - x x x FENCE
 - CONSTRUCTION LIMITS

- ASPHALT PAVEMENT
- PHASE 2 PARKING LOT (BY OTHERS)
- GRAVEL DRIVE

NOTE:
 1. CONTRACTOR TO LAYOUT PARKING LOT, BIOSWALES AND INFILTRATION BASIN PRIOR TO INSTALLATION FOR APPROVAL BY LANDSCAPE ARCHITECT.
 2. REFER TO SHEET 0006 FOR DETAILED MOON INFILTRATION BASIN/BIOSWALE & SUN BIOSWALE LAYOUT

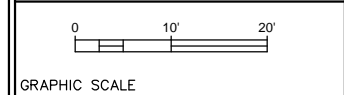
- (A) 38" DIA. BLACK SMART POT #30
- (B) 50" DIA. BLACK SMART POT #100

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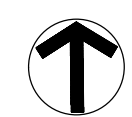
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DATE	BY	

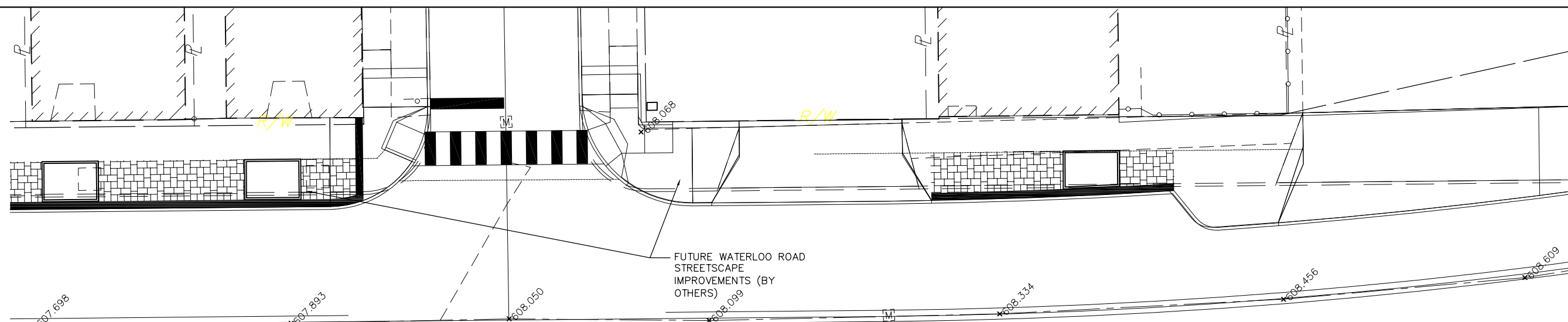
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 SCALE: 1" = 10'



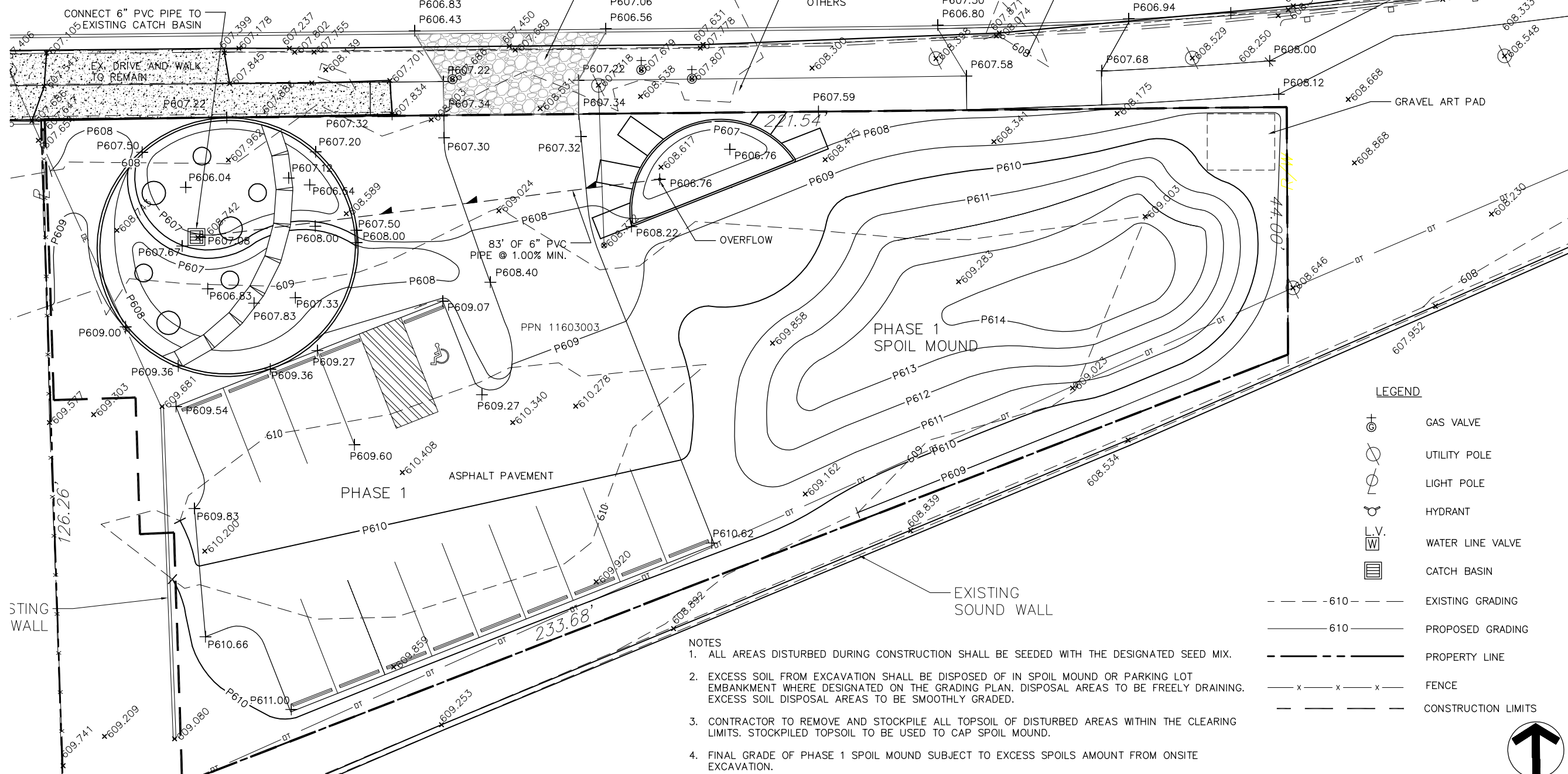
LAYOUT PLAN

COLLINWOOD ARTS DISTRICT
 OUTDOOR THEATRE
 GREEN PARKING LOT
 PHASE 1





WATERLOO ROAD (70' PUBLIC RIGHT-OF-WAY)



- NOTES**
- ALL AREAS DISTURBED DURING CONSTRUCTION SHALL BE SEEDED WITH THE DESIGNATED SEED MIX.
 - EXCESS SOIL FROM EXCAVATION SHALL BE DISPOSED OF IN SPOIL MOUND OR PARKING LOT EMBANKMENT WHERE DESIGNATED ON THE GRADING PLAN. DISPOSAL AREAS TO BE FREELY DRAINING. EXCESS SOIL DISPOSAL AREAS TO BE SMOOTHLY GRADED.
 - CONTRACTOR TO REMOVE AND STOCKPILE ALL TOPSOIL OF DISTURBED AREAS WITHIN THE CLEARING LIMITS. STOCKPILED TOPSOIL TO BE USED TO CAP SPOIL MOUND.
 - FINAL GRADE OF PHASE 1 SPOIL MOUND SUBJECT TO EXCESS SPOILS AMOUNT FROM ONSITE EXCAVATION.

LEGEND

	GAS VALVE
	UTILITY POLE
	LIGHT POLE
	HYDRANT
	WATER LINE VALVE
	CATCH BASIN
- - - - -	EXISTING GRADING
—————	PROPOSED GRADING
—————	PROPERTY LINE
- x - x - x -	FENCE
- - - - -	CONSTRUCTION LIMITS

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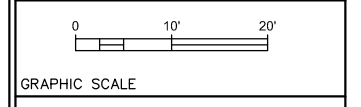
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GRADING PLAN

COLLINWOOD ARTS DISTRICT
 OUTDOOR THEATRE
 GREEN PARKING LOT
 PHASE 1

0007



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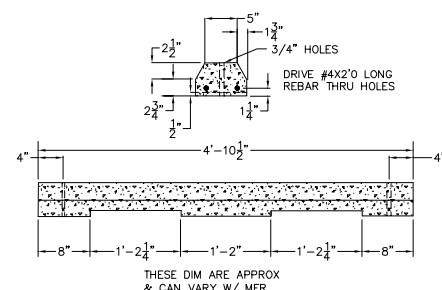
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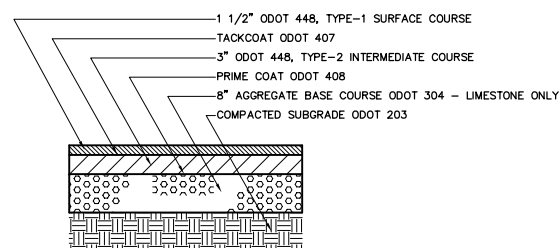
DETAILS

COLLINWOOD ARTS DISTRICT
OUTDOOR THEATRE
GREEN PARKING LOT
PHASE 1

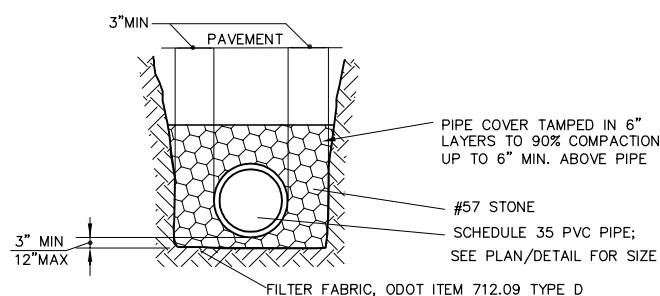
0008



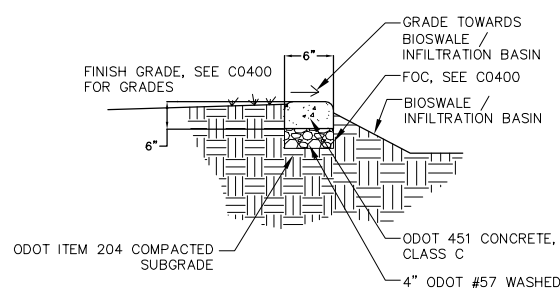
1 CONCRETE CURB STOP
NTS



2 ASPHALT PAVEMENT SECTION
NTS

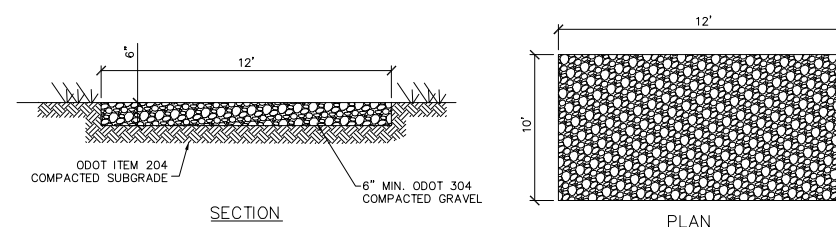


3 UNDERDRAINAGE PIPE DETAIL
NTS

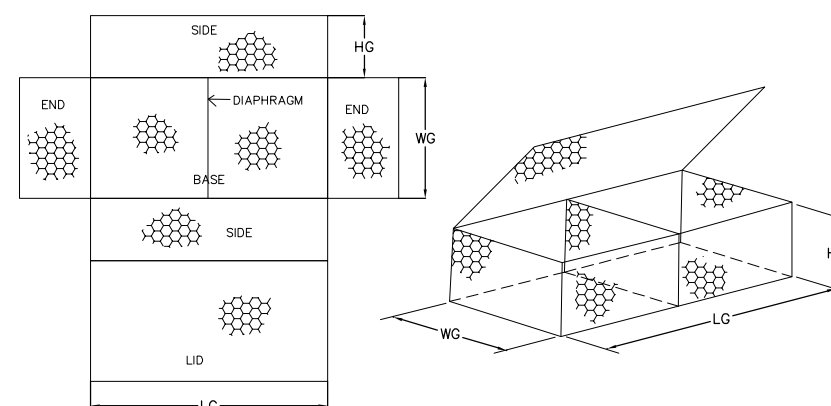


NOTE: 1/4" CONTRACTION JOINT AT 10'-0" O.C.
1/4" EXPANSION JOINT EVERY FIFTH JOINT.

4 CONCRETE MOW EDGE
NTS



5 GRAVEL ART PAD
NTS

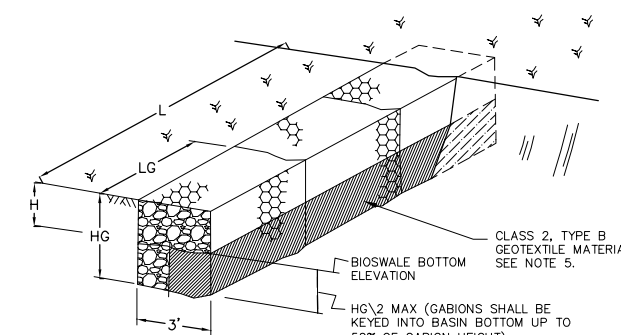


WIRE MESH BASKETS

GABIONS SIZES

STANDARD		
WG	LG	HG
3'-0"	6'-0"	1'-0"

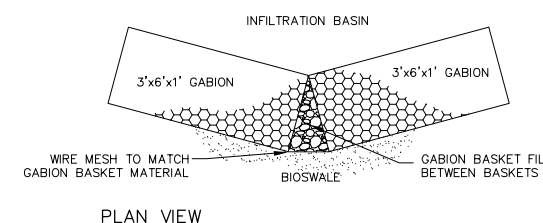
ADDITIONAL SIZES MAY BE AVAILABLE ON A SPECIAL ORDER BASIS.



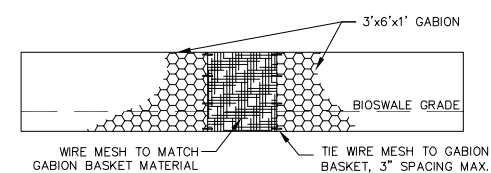
GABION BASKET WALL

NOTES:

1. PROVIDE MATERIALS AND CONSTRUCTION MEETING THE REQUIREMENTS OF ODOT SUPPLEMENTAL SPECIFICATION 838, EXCEPT AS MODIFIED HEREIN.
2. TYPE 'A' GABIONS SHALL CONSIST OF WIRE-MESH BASKETS FILLED BY HAND PLACEMENT OF COARSE AGGREGATE, AT LEAST ALONG THE EXPOSED FACES, FOR A UNIFORM APPEARANCE.
3. SPECIFY TYPE 'B' GABIONS OF WIRE-MESH BASKETS FILLED BY HAND PLACEMENT OR SMALL POWER EQUIPMENT PLACEMENT OF COARSE AGGREGATE.
4. MAKE CORROSION RESISTANT TYPE 'A' & TYPE 'B' GABIONS THE SAME AS TYPE 'A' & TYPE 'B' GABIONS STAINLESS STEEL GABION MATERIAL.
5. PROVIDE GEOTEXTILE MATERIAL MEETING THE REQUIREMENTS OF PUBLICATION 408, SECTION 212 AND SECTION 735.
6. INSTALL GEOTEXTILE MATERIAL ALONG ALL INTERFACE AREAS WITH GROUND CONTACT.
7. FILL GABION BASKETS AS PER SPECIFIED IN ODOT ITEM 703.19 WITH ODOT RIP RAP OR RECYCLED CONCRETE AS PER ODOT 601.04A.

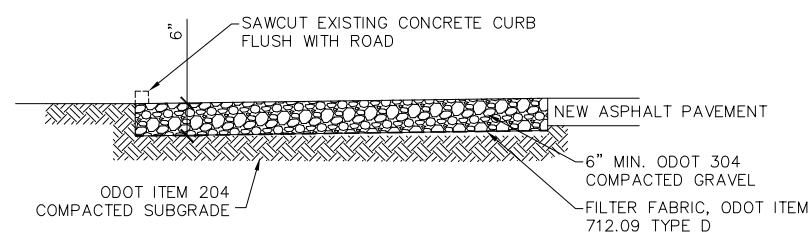


PLAN VIEW



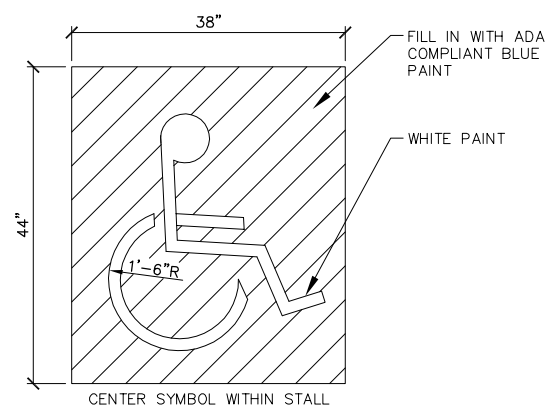
SECTION VIEW

6 GABION BASKET WALL
NTS



SECTION

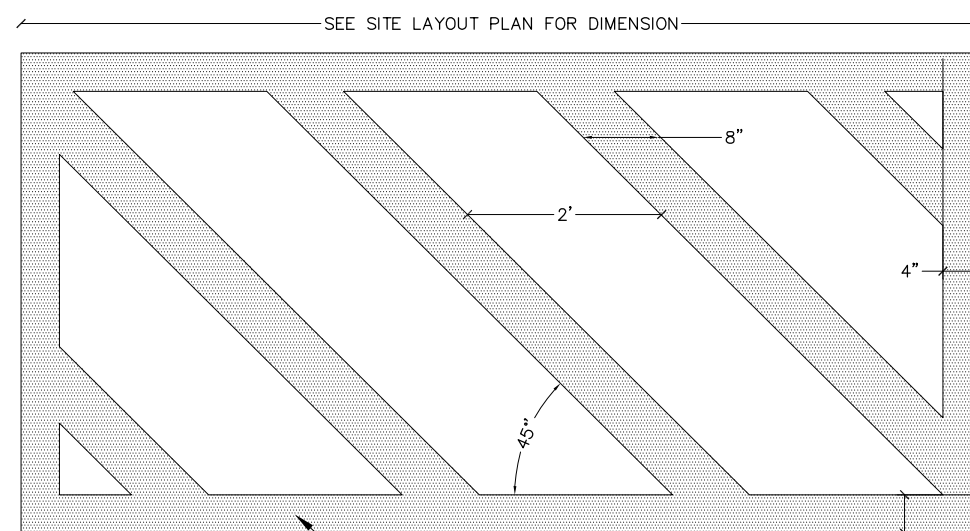
5 GRAVEL ART PAD
NTS



NOTES:

1. SYMBOL TO MEET CURRENT ADA GUIDELINES.
2. PAINT AT ENTRANCE OF EACH ADA PARKING SPACE AS SHOWN ON THE PLAN SHEET 0005.
3. INSTALL AS PER ODOT ITEM 641

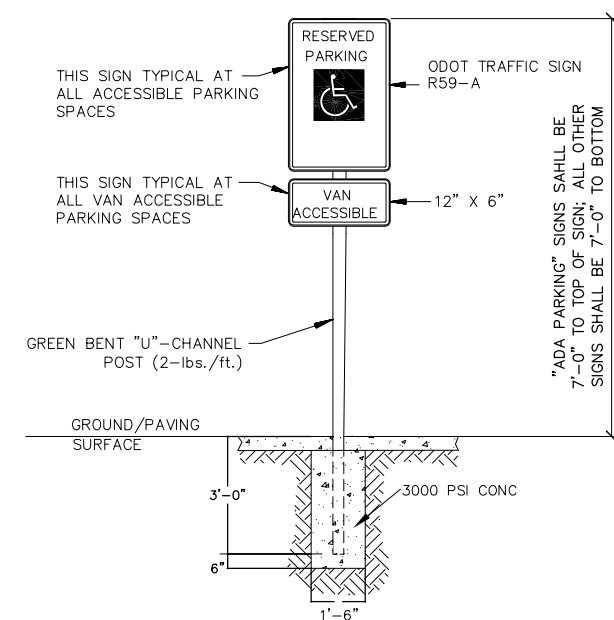
1 ADA PARKING DETAIL
NTS



NOTES:

- INSTALL AS PER ODOT ITEM 641

2 NO PARKING AREA DETAIL
NTS



3 ADA SIGN DETAIL
NTS

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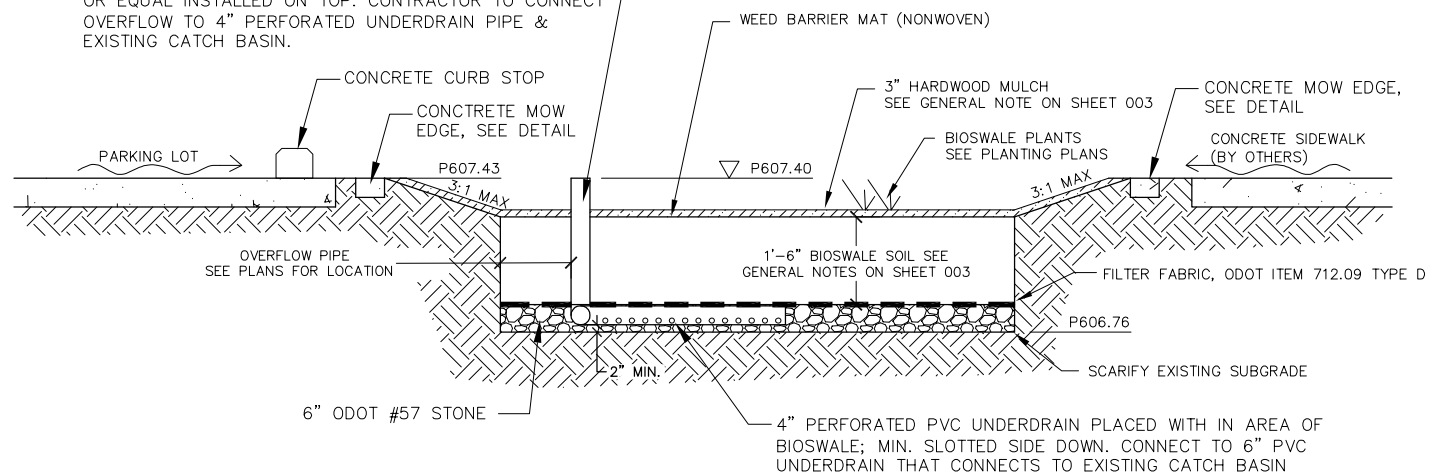
GRAPHIC SCALE

DETAILS

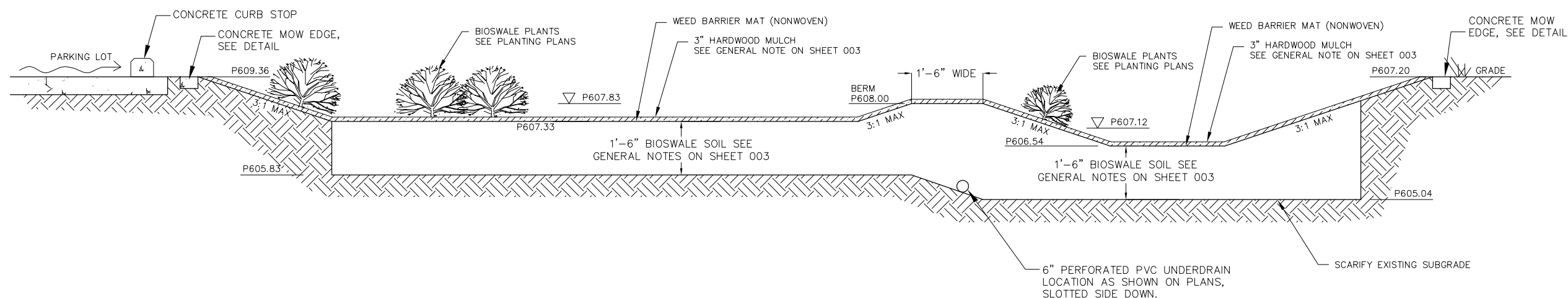
COLLINWOOD ARTS DISTRICT
OUTDOOR THEATRE
GREEN PARKING LOT
PHASE 1

0009

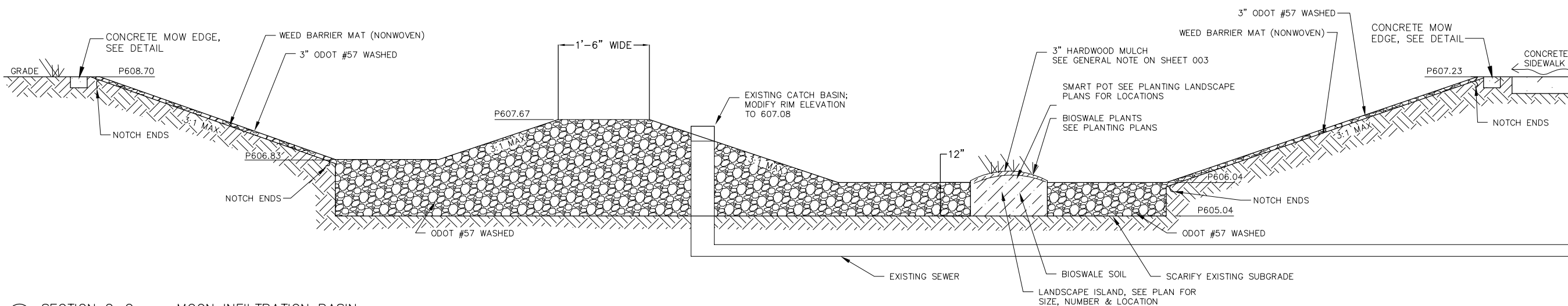
OVERFLOW CONSISTS OF A 4" PVC SOLID PIPE WITH ADVANCED DRAINAGE 0660SDB ROUND GRATE 4" WHITE OR EQUAL INSTALLED ON TOP. CONTRACTOR TO CONNECT OVERFLOW TO 4" PERFORATED UNDERDRAIN PIPE & EXISTING CATCH BASIN.



1 SECTION A-A - SUN BIOSWALE
NTS



2 SECTION B-B - MOON BIOSWALE \ INFILTRATION BASIN
NTS



3 SECTION C-C - MOON INFILTRATION BASIN
NTS

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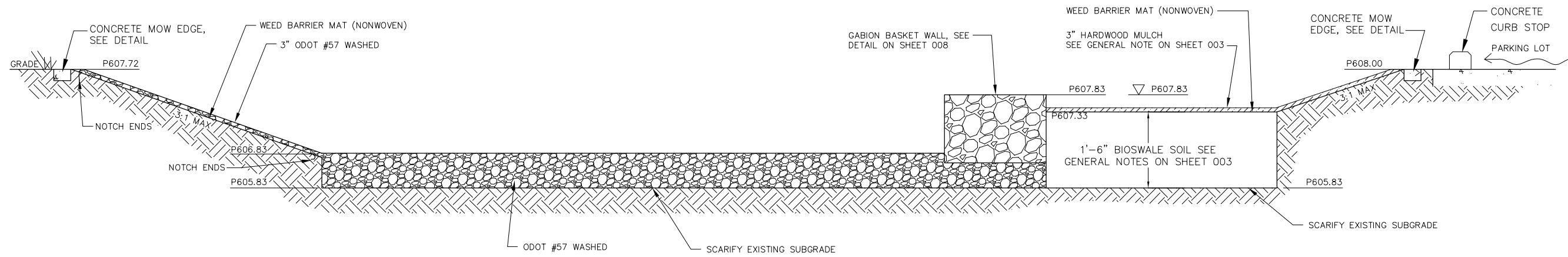
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GRAPHIC SCALE

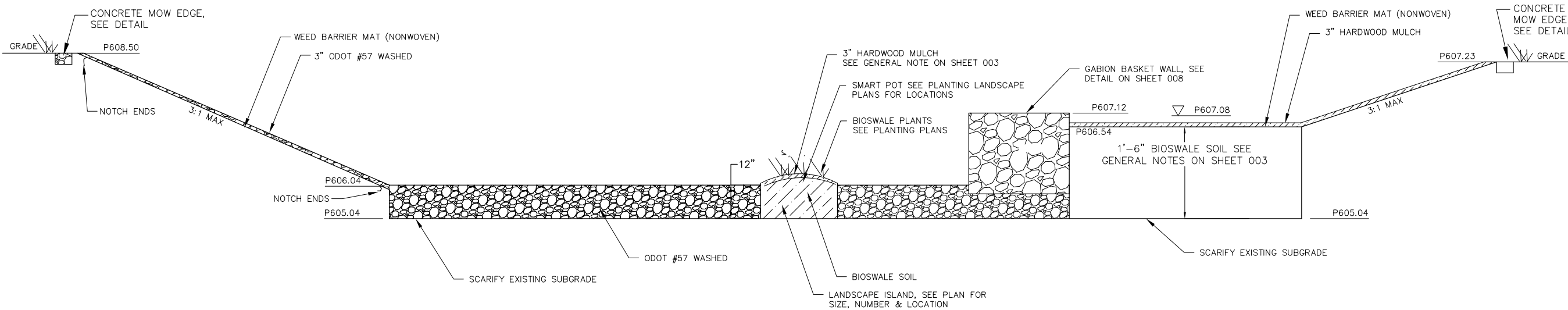
DETAILS

COLLINWOOD ARTS DISTRICT
OUTDOOR THEATRE
GREEN PARKING LOT
PHASE 1

0010



1 SECTION D-D - MOON BIOSWALE \ INFILTRATION BASIN
NTS



2 SECTION E-E - MOON BIOSWALE \ INFILTRATION BASIN
NTS

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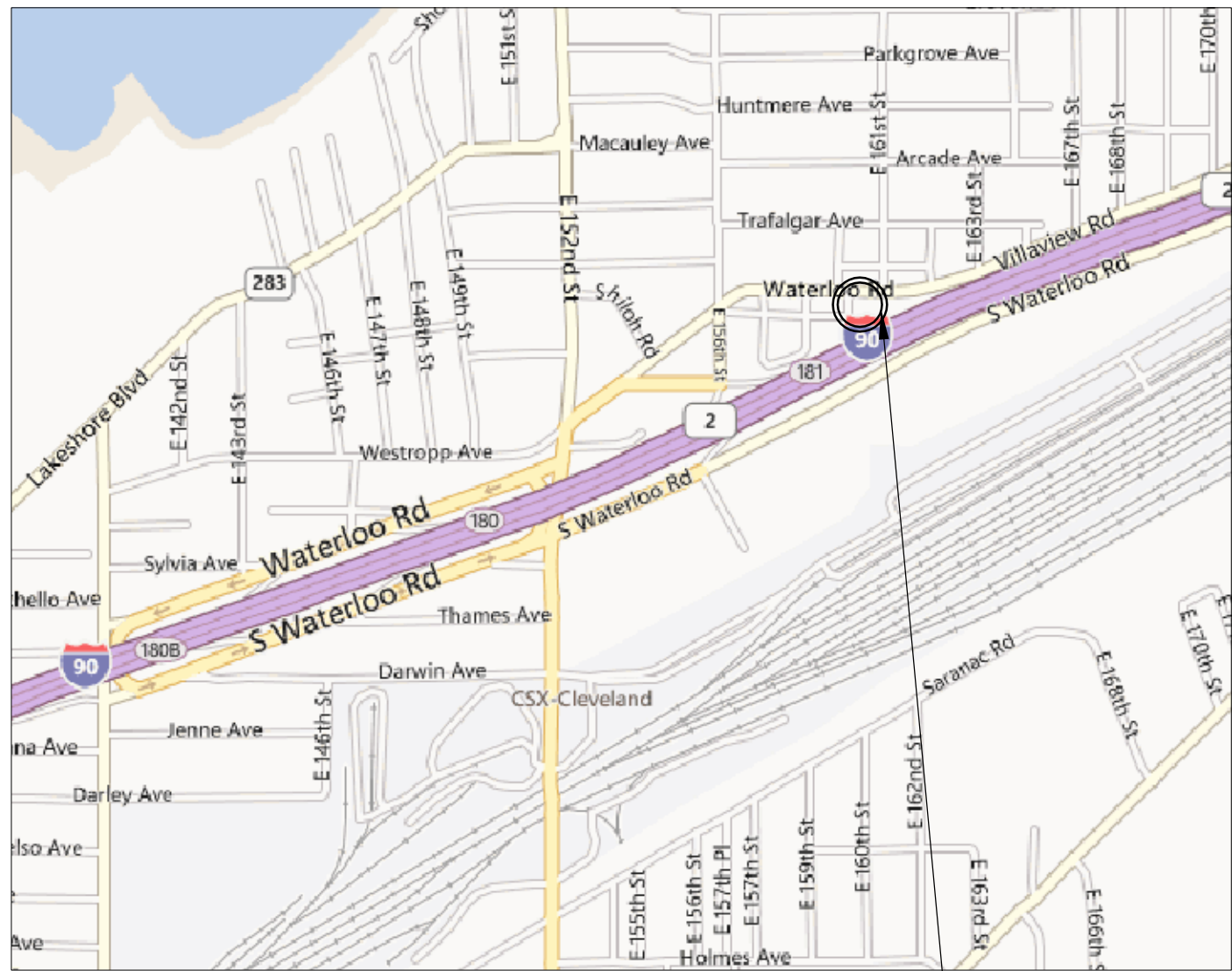
SCALE:

GRAPHIC SCALE

DETAILS

COLLINWOOD ARTS DISTRICT
OUTDOOR THEATRE
GREEN PARKING LOT
PHASE 1

0011



VICINITY MAP
SCALE 1" = NTS



PROJECT LOCATION

PROJECT NAME AND LOCATION:

COLLINWOOD ARTS DISTRICT, OUTDOOR THEATER GREEN PARKING LOT
16010 WATERLOO ROAD
CLEVELAND, OHIO 44110

OWNER NAME AND ADDRESS:

NORTHEAST SHORES
DEVELOPMENT CORPORATION
317 EAST 156th STREET,
CLEVELAND, OHIO 44110

PROFESSIONAL LANDSCAPE ARCHITECT/SURVEYOR

URS CORPORATION
KATHERINE HOLMOK, ASLA
NORMAN HOOVLER, PS
1375 EUCLID AVENUE, SUITE 600
CLEVELAND, OH 44115-1808
216-622-2400

SITE DESCRIPTION:

THE INTENT OF THE PROJECT IS TO INSTALL A 14 CAR PARKING LOT WITH 780 SQUARE FEET OF BIOSWALE, 1600 SQUARE FEET OF INFILTRATION BASIN AND LANDSCAPING. THIS WORK WILL BE INSTALLED ALONG WATERLOO ROAD IN THE COLLINWOOD ARTS DISTRICT.

A. THE SITE IS APPROXIMATELY 0.1344 ± ACRES OF WHICH 0.3981 ± ACRES WILL BE DISTURBED BY CONSTRUCTION ACTIVITIES.

B. SEE SHEETS 0016 THROUGH 0017 FOR THE IMPLEMENTATION OF EROSION, SEDIMENT AND STORM WATER MANAGEMENT PRACTICES.

C. NO IMMEDIATE RECEIVING STREAMS ARE WITHIN 200' OF THIS SITE. THE AREA IS WITHIN THE NEORSd's COMBINED SEWER AREA.

SOIL TYPE IS UeA Urban lands-Elnora complex, nearly flat
Ua Udorthents, Loamy

GENERAL NOTES FOR SWPPP:

- ALL CONSTRUCTION ACTIVITIES MUST COMPLY WITH CLEVELAND WATER POLLUTION CONTROL, CITY OF CLEVELAND ENGINEERING DEPARTMENT AND NEORSD REGULATIONS. SEE GENERAL NOTES FOR PAY ITEMS.
- ALL STORM INLETS/CATCH BASINS/MAN HOLES THAT ARE MADE OPERATIONAL DURING CONSTRUCTION SHALL BE PROTECTED SO THAT SEDIMENT-LADEN WATER WILL NOT ENTER THE CONVEYANCE SYSTEM WITHOUT FIRST BEING FILTERED OR OTHERWISE TREATED TO REMOVE SEDIMENT.
- ALL EROSION AND SEDIMENT CONTROLS ON SITE MUST BE INSPECTED AT LEAST ONCE EVERY SEVEN (7) CALENDAR DAYS AND WITHIN 24 HOURS AFTER ANY STORM EVENT GREATER THAN 0.5 INCHES OF PRECIPITATION WITHIN ANY 24 HOUR PERIOD. A RECORD SHALL BE KEPT AND MAINTAINED OF THESE INSPECTIONS FOR 2 YEARS FOLLOWING SUBMITTAL OF THE NOTICE OF TERMINATION (NOT) TO OHIO EPA.
- MINIMIZE TRACKING OF SEDIMENTS BY VEHICLES BY UTILIZING THE CONSTRUCTION ENTRANCE AS THE ONLY ENTRANCE FOR VEHICLES. MAINTAIN THIS ENTRANCE WITH STONE AS NEEDED TO PREVENT DIRT AND MUD FROM TRACKING ONTO THE ROADWAY. REGULAR SWEEPING OF THE ROADWAY MAY BE NECESSARY TO ENSURE ROADWAY DOES NOT BUILD UP WITH SEDIMENTS.
- OTHER EROSION AND SEDIMENT CONTROL ITEMS MAY BE NECESSARY DUE TO ENVIRONMENTAL CONDITIONS AND MAY BE REQUIRED AT THE DISCRETION OF THE ENGINEER.
- NO SOLID OR LIQUID WASTE SHALL BE DISCHARGED INTO STORM WATER RUNOFF. (THIS INCLUDES WASHING OUT OF CEMENT TRUCKS.) DESIGNATED WASH PIT AREAS ARE TO BE DETERMINED IN FIELD BY ENGINEER AND ARE PRESET FOR THIS PURPOSE AWAY FROM AREAS OF STORM WATER RUNOFF.
- SITE STABILIZATION EITHER PERMANENT OR TEMPORARY MUST FOLLOW THE REQUIREMENTS AS APPLICABLE ON THE CHARTS ON SWPPP PLAN SHEETS.

EROSION AND SEDIMENT CONTROLS:

STABILIZATION PRACTICES

STORMWATER MANAGEMENT – THE AREAS WHICH ARE NOT DEVELOPED WILL BE GRADED AT LESS THAN 4:1 AND HAVE PERMANENT SEEDING OR PLANTINGS.

WASTE DISPOSAL:

SOLID, SANITARY AND TOXIC WASTE MUST BE DISPOSED OF IN A PROPER MANNER IN ACCORDANCE WITH LOCAL, AND FEDERAL REGULATIONS. IT IS PROHIBITED TO BURN, BURY OR POUR OUT ONTO THE GROUND OR INTO THE STORM SEWERS ANY SOLVENTS, PAINTS, STAINS, GASOLINE, DIESEL FUEL, USED MOTOR OIL, HYDRAULIC FLUID, ANTIFREEZE, CEMENT CURING COMPOUNDS AND OTHER SUCH TOXIC OR HAZARDOUS WASTES. WASH OUT OF CEMENT TRUCKS SHOULD OCCUR IN A DIKED, DESIGNATED AREA WHERE THE WASHINGS CAN COLLECT AND BE DISPOSED OF PROPERLY WHEN THEY HARDEN (SEE CONCRETE WASHOUT AREA ON PLAN AND DETAIL ON SHEET 0017). FUEL STORAGE TANKS MUST BE SELF CONTAINED SPILL PROOF TANKS.

SOLID WASTE MATERIALS:

ALL SOLID WASTE MATERIALS IS BE COLLECTED AND STORED IN A SECURE METAL DUMPSTER WITH LID OR REMOVED FROM SITE EACH DAY BY CONTRACTOR. DUMPSTER IS TO BE RENTED FROM A LICENSED SOLID WASTE MANAGEMENT COMPANY. THE DUMPSTER SHALL MEET ALL LOCAL, STATE, AND FEDERAL REGULATIONS PERTAINING TO SOLID WASTE MANAGEMENT. ALL TRASH AND CONSTRUCTION DEBRIS FROM THE SITE SHALL BE DEPOSITED IN THE DUMPSTER OR TRANSPORTED FROM SITE BY LICENSED WASTE MANAGEMENT COMPANY IN A LEGAL MANNER. THE DUMPSTER IS BE EMPTIED A MINIMUM OF TWICE PER WEEK OR AS NECESSARY, AND THE TRASH IS BE HAULED TO A PERMITTED LANDFILL. NO CONSTRUCTION WASTE MATERIALS ARE BE BURIED ONSITE. ALL PERSONNEL NEED BE INSTRUCTED ON PROPER PROCEDURE FOR WASTE DISPOSAL. NOTICES STATING PROPER PRACTICES SHALL BE POSTED IN THE FIELD OFFICE TRAILER. THE INDIVIDUAL MANAGING THE SITE CONSTRUCTION OPERATIONS WILL BE RESPONSIBLE FOR OVERSEEING THAT PROPER PROCEDURES ARE FOLLOWED.

HAZARDOUS WASTE:

ALL HAZARDOUS WASTE MATERIALS SHALL BE DISPOSED OF IN A MANNER AS SPECIFIED BY THE MANUFACTURER AND BY LOCAL, STATE, AND FEDERAL REGULATIONS. SITE CONSTRUCTION PERSONNEL ARE BE INSTRUCTED IN THESE PROCEDURES. THE INDIVIDUAL IN CHARGE OF MANAGING SITE CONSTRUCTION OPERATIONS SHALL BE RESPONSIBLE FOR OVERSEEING THAT ALL REQUIRED HAZARDOUS WASTE HANDLING PROCEDURES ARE FOLLOWED.

SANITARY WASTE:

ALL SANITARY WASTE IS BE COLLECTED FROM ALL PORTABLE UNITS (IF UNITS ARE INSTALLED ON SITE) A MINIMUM OF THREE TIMES PER WEEK BY A LICENSED SANITARY WASTE MANAGEMENT CONTRACTOR, OR AS REQUIRED BY THE LOCAL DEPARTMENT OF HEALTH.

TRENCH AND GROUNDWATER DEWATERING:

ALL SEDIMENT LADEN PUMPED WATER MUST PASS THROUGH A SEDIMENT BASIN, FILTER BAG, OR SUMP PIT PRIOR TO DISCHARGE. THERE IS NO EXPECTED PUMPING OF GROUNDWATER FOR THIS PROJECT.

OFFSITE VEHICLE / SEDIMENT TRACKING:

A STABILIZED CONSTRUCTION ENTRANCE SHALL BE PROVIDED TO HELP REDUCE VEHICLE TRACKING OF SEDIMENTS. ALL PAVED STREETS ADJACENT TO THE SITE ARE BE SWEEP DAILY TO REMOVE ANY EXCESS MATERIAL TRACKED FROM THE SITE. A TIRE WASH IS TO BE INSTALLED AT NO ADDITIONAL COST TO THE PROJECT IF DEEMED NECESSARY BY LOCAL OFFICIALS. DUMP TRUCKS HAULING MATERIAL FROM THE CONSTRUCTION SITE NEED TO BE COVERED WITH A TARPAULIN.

AREAS WHERE CONSTRUCTION ACTIVITY TEMPORARILY CEASES FOR MORE THAN 21 DAYS WILL BE STABILIZED WITH A TEMPORARY SEED AND MULCH WITHIN 7 DAYS OF THE LAST DISTURBANCE. ONCE CONSTRUCTION ACTIVITY CEASES PERMANENTLY IN AN AREA, THAT AREA WILL BE STABILIZED WITH PERMANENT SEED AND MULCH. AFTER THE ENTIRE SITE IS STABILIZED, THE ACCUMULATED SEDIMENT WILL BE REMOVED FROM THE BASIN.

SOIL PROTECTION CHART

STABILIZATION TYPE	J	F	M	A	M	J	J	A	S	O	N	D
PERMANENT SEEDING	●	●	●	●	●	●	●	●	●	●	●	●
DORMANT SEEDING	●	●	●	●	●	●	●	●	●	●	●	●
TEMPORARY SEEDING			●	●	●	●	●	●	●	●	●	●
SODDING			●	●	●	●	●	●	●	●	●	●
MULCHING	●	●	●	●	●	●	●	●	●	●	●	●

* – IRRIGATION NEEDED

** – IRRIGATION NEEDED FOR 2-3 WEEKS AFTER SOD IS APPLIED

CONTROLS

EROSION AND SEDIMENT CONTROLS:

STABILIZATION PRACTICES

TEMPORARY STABILIZATION – STOCKPILED TOPSOIL AND DISTURBED AREAS OF THE SITE WHERE CONSTRUCTION ACTIVITY IS TO CEASE FOR MORE THAN 21 DAYS SHALL BE STABILIZED WITH TEMPORARY SEED AND/OR MULCHING NO LATER THAN 7 DAYS AFTER THE LAST CONSTRUCTION ACTIVITY IN THAT AREA. THE TEMPORARY SEEDING SHALL BE APPLIED PER THE TEMPORARY SEEDING SPECIFICATIONS AS SHOWN ON THE FOLLOWING STORMWATER POLLUTION PREVENTION PLANS. AREAS OF THE SITE TO BE PAVED WILL BE TEMPORARILY STABILIZED BY APPLYING GEOTEXTILE AND STONE SUBBASE UNTIL PAVEMENT IS APPLIED.

PERMANENT STABILIZATION – DISTURBED AREAS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE BEEN PERMANENTLY CEASED SHALL BE STABILIZED WITH PERMANENT SEEDING NO LATER THAN 7 DAYS AFTER THE LAST CONSTRUCTION ACTIVITY. THE PERMANENT SEED MIX SHALL CONFORM WITH THE PERMANENT SEEDING SPECIFICATIONS, AS SHOWN ON THE SWPPP PLAN SHEETS.

EROSION AND SEDIMENT CONTROL INSPECTION AND MAINTENANCE PRACTICES:

THE CONTRACTOR SHALL BE RESPONSIBLE TO PERFORM AND MAINTAIN A PERMANENT RECORD OF MAINTENANCE AND INSPECTIONS WHICH MUST BE KEPT THROUGHOUT THE CONSTRUCTION PERIOD. THE CONTRACTOR SHALL PROVIDE A COPY OF THE INSPECTION REPORTS WHEN REQUESTED BY THE OWNER OR ENGINEER DURING CONSTRUCTION AND SHALL PROVIDE ALL OF THE INSPECTION REPORTS TO THE OWNER AT THE COMPLETION OF THEIR WORK. INSPECTIONS MUST BE MADE A MINIMUM OF ONCE EVERY 7 DAYS AND IMMEDIATELY AFTER STORM EVENTS GREATER THAN 0.5 INCHES OF RAIN IN A 24 HOUR PERIOD. PROVIDED FOR THE RECORD SHALL BE A WRITTEN LOG WHICH SHALL CONTAIN THE FOLLOWING:

- NAME OF THE INSPECTOR
- DATE OF INSPECTION
- WEATHER CONDITIONS
- MAJOR OBSERVATIONS
- INSPECTION OF SILT FENCING TO DETERMINE SEDIMENT DEPTH (BUILT UP SEDIMENT SHALL BE REMOVED FROM SILT FENCE WHEN IT HAS REACHED ONE–THIRD THE HEIGHT OF THE FENCE), TEARS, NOTING IF FABRIC SECURELY ATTACHED TO THE POSTS, AND POSTS ARE FIRMLY IN THE GROUND.
- TEMPORARY/PERMANENT SEEDING AND PLANTING ARE TO BE INSPECTED FOR BARE SPOTS, WASHOUTS, AND HEALTHY GROWTH.
- CORRECTIVE MEASURES TO BE PERFORMED
- DATE THE CORRECTIVE MEASURES WERE PERFORMED

NON-STORMWATER DISCHARGES:

IT IS EXPECTED THAT THE FOLLOWING NON-STORM DISCHARGES ARE LIKELY TO OCCUR DURING CONSTRUCTION:

- WATER FROM WATER LINE FLUSHINGS.
- PAVEMENT WASH WATERS (WHERE NO SPILLS OR LEAKS OF TOXIC OR HAZARDOUS MATERIALS HAVE OCCURRED).
- UNCONTAMINATED GROUNDWATER (FROM DEWATERING EXCAVATION).

INVENTORY FOR POLLUTION PREVENTION PLAN

THE MATERIALS OR SUBSTANCES LISTED BELOW ARE EXPECTED TO BE PRESENT ONSITE DURING CONSTRUCTION:

1. CONCRETE	7. LUMBER AND TIMBER
2. FERTILIZERS	8. ASPHALT
3. DETERGENTS	9. MASONRY BLOCK
4. PETROLEUM BASED PRODUCTS	10. TAR
5. PAINTS AND VARNISHES	11. OTHER POTENTIAL MATERIALS
6. CLEANING SOLVENTS	NOT LISTED

SPILL PREVENTION

MATERIAL MANAGEMENT PRACTICES: THE FOLLOWING ARE THE MATERIAL MANAGEMENT PRACTICES THAT WILL BE USED TO REDUCE THE RISK OF SPILLS OR OTHER ACCIDENTAL EXPOSURE OF MATERIALS AND SUBSTANCES TO STORMWATER RUNOFF.

GOOD HOUSEKEEPING:

THE FOLLOWING GOOD HOUSEKEEPING PRACTICES WILL BE FOLLOWED ONSITE DURING THE CONSTRUCTION PROJECT. AN EFFORT WILL BE MADE TO STORE ONLY ENOUGH PRODUCT REQUIRED TO DO THE JOB. ALL MATERIALS STORED ONSITE SHALL BE STORED IN A NEAT, ORDERLY MANNER IN APPROPRIATE CONTAINERS AND, IF POSSIBLE, UNDER A ROOF OR OTHER SECURE ENCLOSURE. PRODUCTS SHALL ALSO BE KEPT IN THEIR ORIGINAL CONTAINERS WITH THE ORIGINAL MANUFACTURER'S LABEL. SUBSTANCES ARE NOT BE MIXED WITH ONE ANOTHER UNLESS RECOMMENDED BY THE MANUFACTURER. WHENEVER POSSIBLE, ALL OF A PRODUCT WILL BE USED UP BEFORE DISPOSING OF THE CONTAINER. MANUFACTURERS' RECOMMENDATIONS FOR PROPER USE AND DISPOSAL SHALL BE FOLLOWED. THE SITE SUPERINTENDENT WILL INSPECT DAILY TO ENSURE PROPER USE AND DISPOSAL OF MATERIALS ONSITE.

HAZARDOUS PRODUCTS:

THE FOLLOWING PRACTICES ARE USED TO REDUCE THE RISKS ASSOCIATED WITH HAZARDOUS MATERIALS. ALL PRODUCTS ARE TO BE KEPT IN ORIGINAL CONTAINERS UNLESS THEY ARE NOT RESEALABLE. ORIGINAL LABELS AND MATERIAL SAFETY DATA MUST BE RETAINED AS THEY CONTAIN IMPORTANT PRODUCT INFORMATION. IF SURPLUS PRODUCT MUST BE DISPOSED OF, MANUFACTURERS' OR LOCAL, STATE, AND FEDERAL RECOMMENDED PROCEDURES FOR PROPER DISPOSAL SHALL BE FOLLOWED.

PRODUCT SPECIFIC PRACTICES

THE FOLLOWING PRODUCT SPECIFIC PRACTICES SHALL BE FOLLOWED WHILE ONSITE:

PETROLEUM PRODUCTS – ALL ONSITE VEHICLES WILL BE MONITORED FOR LEAKS AND RECEIVE REGULAR PREVENTIVE MAINTENANCE TO REDUCE THE CHANCE OF LEAKAGE. PETROLEUM PRODUCTS MUST BE STORED IN APPROVED SEALED CONTAINERS WHICH ARE CLEARLY LABELED. ANY ASPHALT SUBSTANCES USED ONSITE ARE TO BE APPLIED ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS.

FERTILIZERS – FERTILIZERS USED SHALL BE APPLIED IN THE MINIMUM AMOUNTS RECOMMENDED BY THE MANUFACTURER. ONCE APPLIED, FERTILIZER WILL BE WORKED INTO THE SOIL TO LIMIT EXPOSURE TO STORM WATER. STORAGE OF ALL MATERIAL SHALL BE IN A COVERED SHED. THE CONTENTS OF ANY PARTIALLY USED BAGS OF FERTILIZER MUST BE TRANSFERRED TO A SEALABLE CONTAINER, MADE OF A SUITABLE MATERIAL TO PREVENT SPILLS.

PAINTS – ALL CONTAINERS SHALL BE TIGHTLY SEALED AND PROPERLY STORED WHEN NOT IN USE. EXCESS PAINT IS NOT BE DISCHARGED TO THE STORM SEWER SYSTEM, BUT PROPERLY DISPOSED OF ACCORDING TO MANUFACTURERS' INSTRUCTIONS OR STATE, LOCAL, OR FEDERAL REGULATIONS.

CONCRETE TRUCKS – CONCRETE TRUCKS WILL BE PERMITTED TO WASH OUT OR DISCHARGE SURPLUS CONCRETE OR DRUM WASH WATER ON THE SITE.

SPILL CONTROL PRACTICES:

IN ADDITION TO THE GOOD HOUSEKEEPING AND MATERIAL MANAGEMENT PRACTICES DISCUSSED IN PREVIOUS SECTIONS OF THIS PLAN, THE FOLLOWING PRACTICES SHALL BE FOLLOWED FOR SPILL PREVENTION AND CLEANUP.

- THE MANUFACTURERS' RECOMMENDED METHODS FOR SPILL CLEANUP MUST BE POSTED AT ALL TIMES AND SITE PERSONNEL SHALL BE AWARE OF THE PROCEDURES AND LOCATION OF INFORMATION AND CLEANUP SUPPLIES.
- THE MATERIALS AND EQUIPMENT NECESSARY FOR SPILL CLEANUP WILL BE KEPT IN THE MATERIAL STORAGE AREA ONSITE. EQUIPMENT AND MATERIALS SHALL INCLUDE BUT NOT BE LIMITED TO BROOMS, DUST PANS, MOPS, RAGS, GLOVES, GOGGLES, INDUSTRIAL SPILL ABSORPTION MATERIAL, SAND, SAWDUST, AND PLASTIC AND METAL TRASH CONTAINERS SPECIFICALLY FOR THIS PURPOSE.
- ALL SPILLS ARE TO BE CLEANED UP IMMEDIATELY AFTER DISCOVERY. THE SPILL AREA WILL BE KEPT WELL VENTILATED AND PERSONNEL WILL WEAR APPROPRIATE PROTECTIVE CLOTHING AND EQUIPMENT TO PREVENT INJURY FROM CONTACT WITH A HAZARDOUS SUBSTANCE.
- TOXIC OR HAZARDOUS MATERIAL SPILLS OR EXPOSURES MUST BE REPORTED TO THE APPROPRIATE AUTHORITIES IMMEDIATELY, REGARDLESS OF SIZE. THE SPILL PREVENTION PLAN SHALL BE UPDATED TO INCLUDE PROCEDURES FOR PREVENTING ANY REOCCURRENCE ALONG WITH PROVEN SUCCESSFUL CLEAN-UP PROCEDURES.
- THE NAMES OF ALL PERSONNEL GIVEN THE RESPONSIBILITY OF HAZARDOUS MATERIAL CLEANUPS SHALL BE POSTED IN THE MATERIAL STORAGE AREA AND IN THE CONSTRUCTION OFFICE.

NOTES ABOUT FINAL STABILIZATION

A SITE IS CONSIDERED STABILIZED WHEN ALL OF THE FOLLOWING CRITERIA ARE MET:

- A PERENNIAL, VEGETATED COVER (OR OTHER PERMANENT STABILIZATION PRACTICE) HAS GROWN TO A 75% DENSITY THROUGHOUT THE ENTIRE DISTURBED AREA.
- ALL TEMPORARY EROSION AND SEDIMENT CONTROLS HAVE BEEN REMOVED AND DISPOSED OF PROPERLY.
- ALL TRAPPED SEDIMENT HAS BEEN PERMANENTLY STABILIZED TO PREVENT FURTHER EROSION OR RE-SUSPENSION.
- ALL CONSTRUCTION ACTIVITIES HAVE CEASED.

SEEDING AND MULCHING OF ALL DISTURBED AREAS WHETHER PERMANENT OR TEMPORARY MUST FOLLOW THE FOLLOWING SCHEDULE AS APPLICABLE:

TABLE 1: PERMANENT SEEDING

Area requiring permanent stabilization	Time frame to apply erosion controls
Any area that will lie dormant for one year or more.	Within 7 days of the most recent disturbance.
Any area within 50 feet of a stream and at final grade.	Within 2 days of reaching final grade.
Any area at final grade.	Within 7 days of reaching final grade within that area.

TABLE 2: TEMPORARY SEEDING

Area requiring permanent stabilization	Time frame to apply erosion controls
Any disturbed area within 50 feet of a stream and not at final grade.	Within 2 days of the most recent disturbance, if that area will remain idle for more than 21 days.
For all construction activities, any disturbed area, including stockpiles, that will be dormant for more than 21 days but less than one year, and not within 50 feet of a stream.	Within 7 days of the most recent disturbance within the area.
Disturbed areas that will be idle over the winter.	Prior to November 1.

NOTE: WHERE VEGETATIVE STABILIZATION TECHNIQUES MAY CAUSE STRUCTURAL INSTABILITY OR ARE OTHERWISE UNOBTAINABLE, ALTERNATIVE STABILIZATION TECHNIQUES MUST BE EMPLOYED. THESE TECHNIQUES MAY INCLUDE MULCHING, EROSION MATTING, OR PLACEMENT OF STONE.

PERMANENT SEEDING

DESCRIPTION

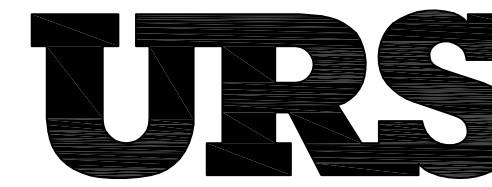
PERMANENT SEEDING INCLUDES THE SEEDBED PREPARATION, SEEDING, AND THE ESTABLISHMENT OF PERENNIAL VEGETATION USED TO PERMANENTLY STABILIZE SOIL, PREVENT SEDIMENT POLLUTION, REDUCE RUNOFF BY PROMOTING INFILTRATION, AND PROVIDE STORMWATER QUALITY BENEFITS OFFERED BY DENSE VEGETATION.

PERMANENT SEED MIX SHALL CONFORM TO AEP SPECIFICATIONS. COPIES OF THE SEED MIX SHALL BE SUBMITTED TO THE OWNER FOR APPROVAL.

SPECIFICATIONS FOR PERMANENT SEEDING

SITE PREPARATION

- A SUBSOILER, PLOW OR OTHER IMPLEMENT SHALL BE USED TO REDUCE SOIL COMPACTION AND ALLOW MAXIMUM INFILTRATION. (MAXIMIZING INFILTRATION WILL HELP CONTROL BOTH RUNOFF RATE AND WATER QUALITY.) SUBSOILING SHOULD BE DONE WHEN THE SOIL MOISTURE IS LOW ENOUGH TO ALLOW THE SOIL TO CRACK OR FRACTURE. SUBSOILING SHALL NOT BE DONE ON SLIP-PRONE AREAS WHERE SOIL PREPARATION SHOULD BE LIMITED TO WHAT IS NECESSARY FOR ESTABLISHING VEGETATION.
- THE SITE SHALL BE GRADED AS NEEDED TO PERMIT THE USE OF CONVENTIONAL EQUIPMENT FOR SEEDBED PREPARATION AND SEEDING.
- RESOIL SHALL BE APPLIED WHERE NEEDED TO ESTABLISH VEGETATION.



ISSUED FOR BIDDING

ADDENDUM REVISIONS

ADDENDUM NO	ADDENDUM DATE	BY

ISSUED FOR CONSTRUCTION

CONSTRUCTION REVISIONS

NO.	DESCRIPTION	DATE	BY

RECORD DRAWINGS

DATE BY

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DRAWN BY: JPF CHECKED BY: KGH

JOB NO.: 13816154

SCALE:

GRAPHIC SCALE

STORMWATER POLLUTION PREVENTION PLAN NOTES

COLLINWOOD ARTS DISTRICT
OUTDOOR THEATRE
GREEN PARKING LOT
PHASE 1

0012

SEEDBED PREPARATION

- LIME--AGRICULTURAL GROUND LIMESTONE SHALL BE APPLIED TO ACID SOIL AS RECOMMENDED BY A SOIL TEST. IN LIEU OF A SOIL TEST, LIME SHALL BE APPLIED AT THE RATE OF 100 LB. PER 1,000 SQUARE FEET OR 2 TONS PER ACRE.
- FERTILIZER--FERTILIZER SHALL BE APPLIED AS RECOMMENDED BY A SOIL TEST. IN LIEU OF A SOIL TEST, FERTILIZER SHALL BE APPLIED AT A RATE OF 12 LB. PER 1,000 SQUARE FEET OR 500 LB. PER ACRE OF 10-10-10 OR 12-12-12 ANALYSIS.
- THE LIME AND FERTILIZER SHALL BE WORKED INTO THE SOIL WITH A DISK HARROW, SPRING-TOOTH HARROW, OR OTHER SUITABLE FIELD IMPLEMENT TO A DEPTH OF 3 INCHES. ON SLOPING LAND, THE SOIL SHALL BE WORKED ON THE CONTOUR.

SEEDING DATES AND SOIL CONDITIONS

SEEDING SHOULD BE DONE MARCH 1 TO MAY 31 OR AUGUST 1 TO SEPTEMBER 30. THESE SEEDING DATES ARE IDEAL BUT, WITH THE USE OF ADDITIONAL MULCH AND IRRIGATION, SEEDINGS MAY BE MADE ANY TIME THROUGHOUT THE GROWING SEASON. TILLAGE/SEEDBED PREPARATION SHOULD BE DONE WHEN THE SOIL IS DRY ENOUGH TO CRUMBLE AND NOT FORM RIBBONS WHEN COMPRESSED BY HAND. FOR WINTER SEEDING, SEE THE FOLLOWING SECTION ON DORMANT SEEDING.

DORMANT SEEDINGS

- SEEDINGS SHALL NOT BE PLANTED FROM OCTOBER 1 THROUGH NOVEMBER 20 DURING THIS PERIOD. THE SEEDS ARE LIKELY TO GERMINATE BUT PROBABLY WILL NOT BE ABLE TO SURVIVE THE WINTER.
- THE FOLLOWING METHODS MAY BE USED FOR "DORMANT SEEDING":
 - FROM OCTOBER 1 THROUGH NOVEMBER 20, PREPARE THE SEEDBED, ADD THE REQUIRED AMOUNTS OF LIME AND FERTILIZER, THEN MULCH AND ANCHOR. AFTER NOVEMBER 20, AND BEFORE MARCH 15, BROADCAST THE SELECTED SEED MIXTURE. INCREASE THE SEEDING RATES BY 50% FOR THIS TYPE OF SEEDING.
 - FROM NOVEMBER 20 THROUGH MARCH 15, WHEN SOIL CONDITIONS PERMIT, PREPARE THE SEEDBED, LIME AND FERTILIZER, APPLY THE SELECTED SEED MIXTURE, MULCH AND ANCHOR. INCREASE THE SEEDING RATES BY 50% FOR THIS TYPE OF SEEDING.
 - APPLY SEED UNIFORMLY WITH A CYCLONE SEEDER, DRILL, CULTIPACKER SEEDER, OR HYDRO-SEEDED (SLURRY MAY INCLUDE SEED AND FERTILIZER) ON A FIRM, MOIST SEEDBED.
 - WHERE FEASIBLE, EXCEPT WHEN A CULTIPACKER TYPE SEEDER IS USED, THE SEEDBED SHOULD BE FIRMED FOLLOWING SEEDING OPERATIONS WITH A CULTIPACKER OR LIGHT DRAG. ON SLOPING LAND, SEEDING OPERATIONS SHOULD BE ON THE CONTOUR WHERE FEASIBLE.

MULCHING

- MULCH MATERIAL SHALL BE APPLIED IMMEDIATELY AFTER SEEDING. SEEDINGS MADE DURING OPTIMUM SEEDING DATES AND WITH FAVORABLE SOIL CONDITIONS AND ON VERY FLAT AREAS MAY NOT NEED MULCH TO ACHIEVE ADEQUATE STABILIZATION. DORMANT SEEDING SHALL BE MULCHED.
- MATERIALS:
 - STRAW--IF STRAW IS USED, IT SHALL BE UNROTTED SMALL-GRAIN STRAW APPLIED AT THE RATE OF 2 TONS PER ACRE OR 90 LB. PER 1,000 SQUARE FEET (TWO TO THREE BALES). THE MULCH SHALL BE SPREAD UNIFORMLY BY HAND OR MECHANICALLY SO THE SOIL SURFACE IS COVERED. FOR UNIFORM DISTRIBUTION OF HAND-SPREAD MULCH, DIVIDE AREA INTO APPROXIMATELY 1,000 SQUARE FEET SECTIONS AND SPREAD TWO 45 LB. BALES OF STRAW IN EACH SECTION.
 - HYDROSEEDERS--IF WOOD-CELLULOSE FIBER IS USED, IT SHALL BE USED AT 2,000 LB. PER ACRE OR 46 LB. PER 1,000 SQUARE FEET.
 - OTHER--OTHER ACCEPTABLE MULCHES INCLUDE MULCH MATTINGS APPLIED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS OR WOOD CHIPS APPLIED AT 6 TONS PER ACRE.
- STRAW MULCH ANCHORING METHODS
 - STRAW MULCH SHALL BE ANCHORED IMMEDIATELY TO MINIMIZE LOSS BY WIND OR WATER.
 - MECHANICAL--A DISK, CRIMPER, OR SIMILAR TYPE TOOL SHALL BE SET STRAIGHT TO PUNCH OR ANCHOR THE MULCH MATERIAL INTO THE SOIL. STRAW MECHANICALLY ANCHORED SHALL NOT BE FINELY CHOPPED BUT, GENERALLY, BE LEFT LONGER THAN 6 INCHES.
 - MULCH NETTINGS--NETTINGS SHALL BE USED ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS. NETTING MAY BE NECESSARY TO HOLD MULCH IN PLACE IN AREAS OF CONCENTRATED RUNOFF AND ON CRITICAL SLOPES.
 - ASPHALT EMULSION--ASPHALT SHALL BE APPLIED AS RECOMMENDED BY THE MANUFACTURER OR AT THE RATE OF 160 GALLONS PER ACRE.
 - SYNTHETIC BINDERS--SYNTHETIC BINDERS SUCH AS ACRYLIC DLR (AGRI-TAC), DCA-70, PETROSET, TERRA TACK OR EQUAL MAY BE USED AT RATES RECOMMENDED BY THE MANUFACTURER.
 - WOOD-CELLULOSE FIBER--WOOD-CELLULOSE FIBER BINDER SHALL BE APPLIED AT A NET DRY WEIGHT OF 750 LB. PER ACRE. THE WOOD CELLULOSE FIBER SHALL BE MIXED WITH WATER, AND THE MIXTURE SHALL CONTAIN A MAXIMUM OF 50 LB. PER 100 GALLONS OF WOOD CELLULOSE FIBER.

WATERING

- PERMANENT SEEDING SHALL INCLUDE WATERING TO ESTABLISH VEGETATION DURING DRY OR HOT WEATHER OR ON ADVERSE SITE CONDITIONS AS NEEDED FOR ADEQUATE MOISTURE FOR SEED GERMINATION AND PLANT GROWTH.
- EXCESSIVE WATERING RATES SHALL BE AVOIDED AND WATERING MONITORED TO PREVENT EROSION AND DAMAGE FROM RUNOFF.

SPECIFICATIONS FOR MAINTENANCE OF PERMANENT SEEDING

- PERMANENT SEEDING SHALL NOT BE CONSIDERED ESTABLISHED FOR AT LEAST 1 FULL YEAR FROM THE TIME OF PLANTING. SEEDING AREAS SHALL BE INSPECTED FOR FAILURE AND VEGETATION REESTABLISHED AS NEEDED. DEPENDING ON SITE CONDITIONS, IT MAY BE NECESSARY TO IRRIGATE, FERTILIZE, OVERSEED, OR REESTABLISH PLANTINGS IN ORDER TO PROVIDE PERMANENT VEGETATION FOR ADEQUATE EROSION CONTROL.
- MAINTENANCE FERTILIZATION RATES SHALL BE ESTABLISHED BY SOIL TEST RECOMMENDATIONS OR BY USING THE RATES SHOWN IN THE FOLLOWING TABLE.

DESCRIPTION

TEMPORARY SEEDING PROVIDES EROSION CONTROL ON AREAS IN BETWEEN CONSTRUCTION OPERATIONS. GRASSES WHICH ARE QUICK GROWING ARE SEEDING AND USUALLY MULCHED TO PROVIDE PROMPT, TEMPORARY SOIL STABILIZATION. IT EFFECTIVELY MINIMIZES THE AREA OF A CONSTRUCTION SITE PRONE TO EROSION AND SHOULD BE USED EVERYWHERE THE SEQUENCE OF CONSTRUCTION OPERATIONS ALLOWS VEGETATION TO BE ESTABLISHED.

Temporary Seeding Species Selection	
Seeding Dates	Species
March 1 to August 15	Oats Tall Fescue Annual Ryegrass
	Perennial Ryegrass Tall Fescue Annual Ryegrass
August 16 to November 1	Rye Tall Fescue Annual Ryegrass
	Wheat Tall Fescue Annual Ryegrass
November 1 to Spring Seeding	Perennial Ryegrass Tall Fescue Annual Ryegrass
	Use mulch only, sodding practices or dormant seeding.

Note: Other approved seed species may be substituted.

SPECIFICATIONS FOR TEMPORARY SEEDING

- STRUCTURAL EROSION AND SEDIMENT--CONTROL PRACTICES SUCH AS DIVERSIONS AND SEDIMENT TRAPS SHALL BE INSTALLED AND STABILIZED WITH TEMPORARY SEEDING PRIOR TO GRADING THE REST OF THE CONSTRUCTION SITE.
- TEMPORARY SEED SHALL BE APPLIED BETWEEN CONSTRUCTION OPERATIONS ON SOIL THAT WILL NOT BE GRADED OR REWORKED FOR 21 DAYS OR MORE. THESE IDLE AREAS SHOULD BE SEEDING AS SOON AS POSSIBLE AFTER GRADING OR SHALL BE SEEDING WITHIN 7 DAYS. SEVERAL APPLICATIONS OF TEMPORARY SEEDING ARE NECESSARY ON TYPICAL CONSTRUCTION PROJECTS.
- THE SEEDBED SHOULD BE PULVERIZED AND LOOSE TO ENSURE THE SUCCESS OF ESTABLISHING VEGETATION. HOWEVER, TEMPORARY SEEDING SHALL NOT BE POSTPONED IF IDEAL SEEDBED PREPARATION IS NOT POSSIBLE.
- SOIL AMENDMENTS--APPLICATIONS OF TEMPORARY VEGETATION SHALL ESTABLISH ADEQUATE STANDS OF VEGETATION WHICH MAY REQUIRE THE USE OF SOIL AMENDMENTS. SOIL TESTS SHOULD BE TAKEN ON THE SITE TO PREDICT THE NEED FOR LIME AND FERTILIZER.
- SEEDING METHOD--SEED SHALL BE APPLIED UNIFORMLY WITH A CYCLONE SEEDER, DRILL, CULTIPACKER SEEDER, OR HYDROSEEDER. WHEN FEASIBLE, SEED THAT HAS BEEN BROADCAST SHALL BE COVERED BY RAKING OR DRAGGING AND THEN LIGHTLY TAMPED INTO PLACE USING A ROLLER OR CULTIPACKER. IF HYDROSEEDING IS USED, THE SEED AND FERTILIZER WILL BE MIXED ON SITE, AND THE SEEDING SHALL BE DONE IMMEDIATELY AND WITHOUT INTERRUPTION.

MULCHING TEMPORARY SEEDING

- APPLICATIONS OF TEMPORARY SEEDING SHALL INCLUDE MULCH WHICH SHALL BE APPLIED DURING OR IMMEDIATELY AFTER SEEDING. SEEDINGS MADE DURING OPTIMUM SEEDING DATES AND WITH FAVORABLE SOIL CONDITIONS AND ON VERY FLAT AREAS MAY NOT NEED MULCH TO ACHIEVE ADEQUATE STABILIZATION.
- MATERIALS:
 - STRAW--IF STRAW IS USED, IT SHALL BE UNROTTED SMALL-GRAIN STRAW APPLIED AT THE RATE OF 2 TONS PER ACRE OR 90 LB. PER 1,000 SQUARE FEET (TWO TO THREE BALES). THE MULCH SHALL BE SPREAD UNIFORMLY BY HAND OR MECHANICALLY SO THE SOIL SURFACE IS COVERED. FOR UNIFORM DISTRIBUTION OF HAND-SPREAD MULCH, DIVIDE AREA INTO APPROXIMATELY 1,000 SQUARE FOOT SECTIONS AND SPREAD TWO 45 LB. BALES OF STRAW IN EACH SECTION.
 - HYDROSEEDERS--IF WOOD-CELLULOSE FIBER IS USED, IT SHALL BE USED AT 2,000 LB. PER ACRE OR 46 LB. PER 1,000 SQUARE FEET.
 - OTHER--OTHER ACCEPTABLE MULCHES INCLUDE MULCH MATTINGS APPLIED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS OR WOOD CHIPS APPLIED AT 6 TONS PER ACRE.
- STRAW MULCH SHALL BE ANCHORED IMMEDIATELY TO MINIMIZE LOSS BY WIND OR WATER.

ANCHORING METHODS:

- MECHANICAL--A DISK, CRIMPER, OR SIMILAR TYPE TOOL SHALL BE SET STRAIGHT TO PUNCH OR ANCHOR THE MULCH MATERIAL INTO THE SOIL. STRAW MECHANICALLY ANCHORED SHALL NOT BE FINELY CHOPPED BUT, GENERALLY, BE LEFT LONGER THAN 6 INCHES.
- MULCH NETTINGS--NETTINGS SHALL BE USED ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS. NETTING MAY BE NECESSARY TO HOLD MULCH IN PLACE IN AREAS OF CONCENTRATION RUNOFF AND ON CRITICAL SLOPES.
- ASPHALT EMULSION--ASPHALT SHALL BE APPLIED AS RECOMMENDED BY THE MANUFACTURER OR AT THE RATE OF 160 GALLONS PER ACRE.
- SYNTHETIC BINDERS--SYNTHETIC BINDERS SUCH AS ACRYLIC DLR (AGRI-TAC), DCA-70, PETROSET, TERRA TACK OR EQUAL MAY BE USED AT RATES RECOMMENDED BY THE MANUFACTURER.
- WOOD-CELLULOSE FIBER--WOOD-CELLULOSE FIBER BINDER SHALL BE APPLIED AT A NET DRY WEIGHT OF 750 LB. PER ACRE. THE WOOD-CELLULOSE FIBER SHALL BE MIXED WITH WATER, AND THE MIXTURE SHALL CONTAIN A MAXIMUM OF 50 LB. PER 100 GALLONS.

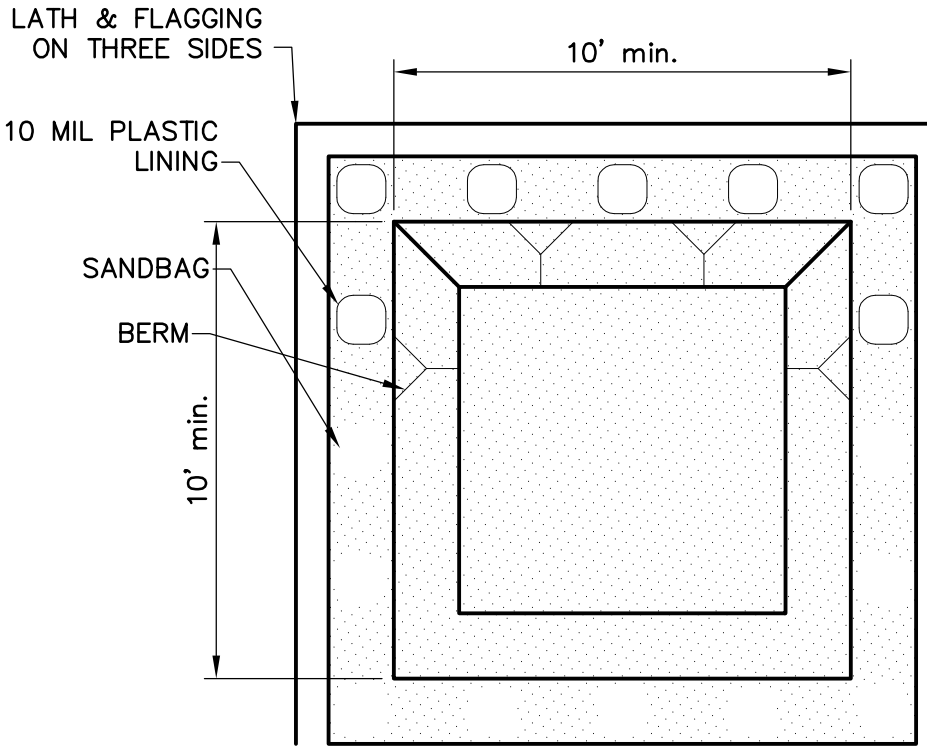
CONCRETE WASHOUT AREA

DESCRIPTION

A CONCRETE WASH OUT AREA IS A STABILIZED LINED COLLECTION AREA WHERE TRUCKS, PANS AND TOOLS CAN BE WASHED OFF AFTER WORKING WITH CONCRETE.

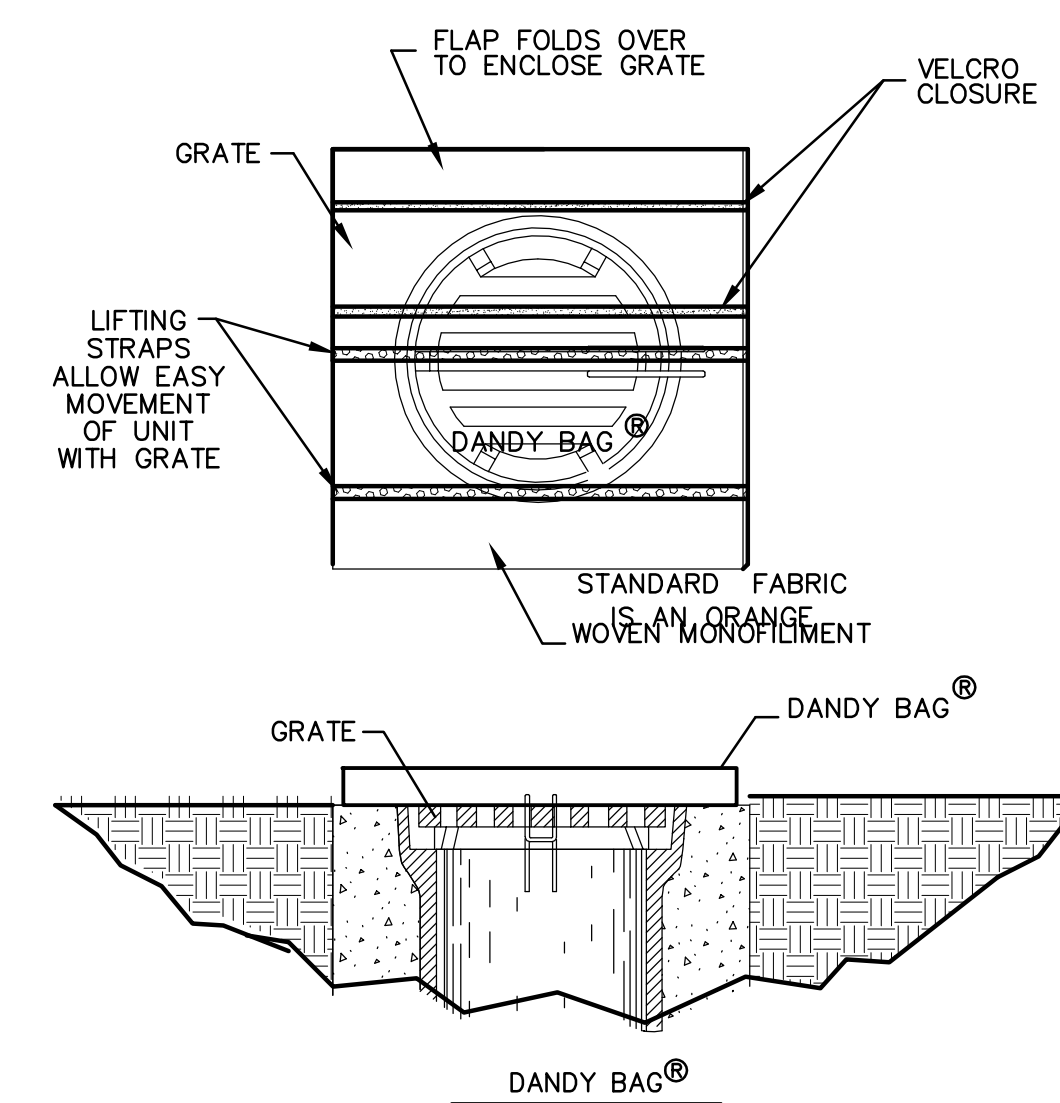
SPECIFICATIONS FOR CONCRETE WASHOUT AREA

- FINAL LOCATION AND SIZE TO BE DETERMINED IN THE FIELD.
- A CONCRETE WASHOUT SIGN SHALL BE INSTALLED WITHIN 30 FEET OF THE TEMPORARY CONCRETE WASHOUT FACILITY. THE SIGN SHALL BE A MIN. OF 24"x24" WITH 4" MIN. LETTER HEIGHT MOUNTED 72" MIN. ABOVE GRADE.
- THE CONCRETE SHALL BE REPAIRED OR REPLACED AS NECESSARY TO MAINTAIN IT'S FUNCTIONALITY.



INLET PROTECTION

SPECIFICATIONS FOR DANDY BAG®



INSTALLATION AND MAINTENANCE GUIDELINES

LOCATION: TO BE USED ON ALL INLETS OR CATCH BASINS WITHIN KLUSNER AVENUE ROW FROM LYLE AVENUE TO WEST PARKVIEW AVENUE INCLUDING THE CATCH BASINS ALONG PARKVIEW AVENUE AT THE INTERSECTION WITH KLUSNER AVENUE.

INSTALLATION: THE EMPTY DANDY BAG® SHOULD BE PLACED OVER THE GRATE AS THE GRATE STANDS ON END. IF USING OPTIONAL OIL ABSORBENTS; PLACE ABSORBENT PILLOW IN POUCH, ON THE BOTTOM (BELOW-GRADE SIDE) OF THE UNIT. ATTACH ABSORBENT PILLOW TO TETHER LOOP. TUCK THE ENCLOSURE FLAP INSIDE TO COMPLETELY ENCLOSE THE GRATE. HOLDING THE LIFTING DEVICES (DO NOT RELY ON LIFTING DEVICES TO SUPPORT THE ENTIRE WEIGHT OF THE GRATE), PLACE THE GRATE INTO ITS FRAME.

MAINTENANCE: REMOVE ALL ACCUMULATED SEDIMENT AND DEBRIS FROM SURFACE AND VICINITY OF UNIT AFTER EACH STORM EVENT. REMOVE SEDIMENT THAT HAS ACCUMULATED WITHIN THE CONTAINMENT AREA OF THE DANDY BAG AS NEEDED. IF USING OPTIONAL OIL ABSORBENTS; REMOVE AND REPLACE ABSORBENT PILLOW WHEN NEAR SATURATION.

SCHEDULE OF CONSTRUCTION ACTIVITY AS (IT RELATES TO SOIL PROTECTION)

THE FOLLOWING IS A GENERAL CONSTRUCTION SCHEDULE AS ESTIMATED BY THE ENGINEER AND BY NO MEANS DICTATES THE CONTRACTOR'S MEANS AND METHODS FOR CONSTRUCTION.

- INSTALL PERIMETER CONTROLS, TDA
- WALK THROUGH WITH CITY TDA
- SITE CLEARING AND GRUBBING START: TDA
- INSTALL EROSION CONTROL BARRIERS WITHIN 7 DAYS TDA
- OF THE START OF CLEARING AND GRUBBING
- MASS SITE GRADING TDA
- TEMPORARY AND PERMANENT SEEDING TDA
- COMPLETION OF SITE CONSTRUCTION TDA
- SITE STABILIZED TDA
- EROSION PROTECTION REMOVED FROM SITE TDA
- SITE OCCUPANCY TDA

TIMING OF CONTROLS / MEASURES

AS INDICATED IN THE SCHEDULE OF CONSTRUCTION ACTIVITIES, STABILIZED CONSTRUCTION ENTRANCE, SILT FENCE, AND INLET PROTECTION WILL BE CONSTRUCTED PRIOR TO CLEARING OR GRADING OF ANY OTHER PORTIONS OF THE SITE. AREAS WHERE CONSTRUCTION ACTIVITY TEMPORARILY CEASES FOR MORE THAN 21 DAYS WILL BE STABILIZED WITH A TEMPORARY SEED AND MULCH WITHIN 7 DAYS OF THE LAST DISTURBANCE. ONCE CONSTRUCTION ACTIVITY CEASES PERMANENTLY IN AN AREA, THAT AREA WILL BE STABILIZED WITH PERMANENT SEED AND MULCH.



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ADDENDUM NO	ADDENDUM DATE	BY

ISSUED FOR CONSTRUCTION DATE BY

CONSTRUCTION REVISIONS

NO.	DESCRIPTION	DATE	BY

RECORD DRAWINGS DATE BY

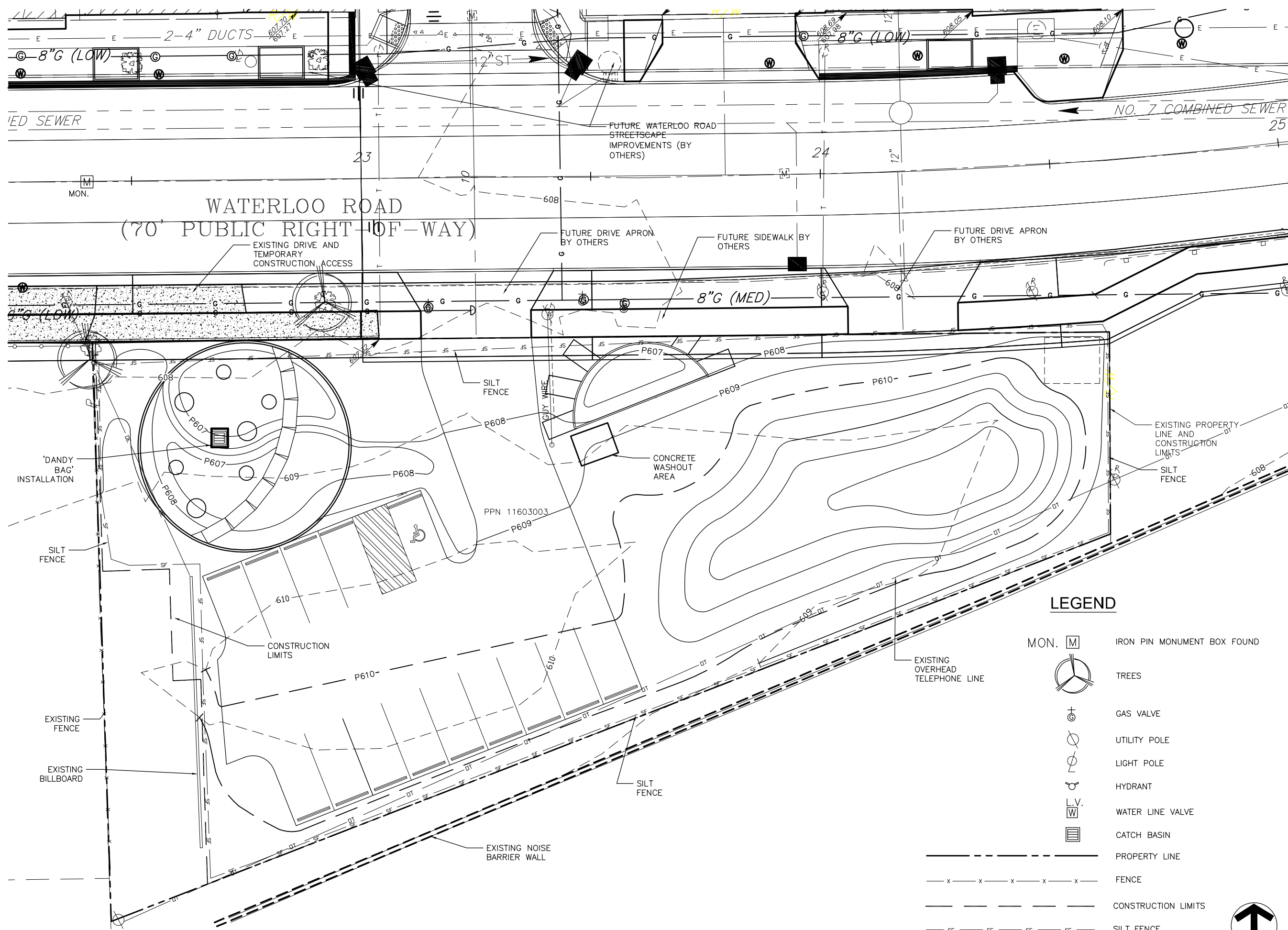
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GRAPHIC SCALE

STORMWATER POLLUTION PREVENTION PLAN NOTES

COLLINWOOD ARTS DISTRICT
 OUTDOOR THEATRE
 GREEN PARKING LOT
 PHASE 1

0013



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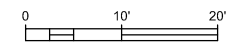
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LEGEND

- MON. IRON PIN MONUMENT BOX FOUND
- TREES
- GAS VALVE
- UTILITY POLE
- LIGHT POLE
- HYDRANT
- WATER LINE VALVE
- CATCH BASIN
- PROPERTY LINE
- FENCE
- CONSTRUCTION LIMITS
- SILT FENCE

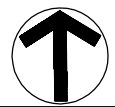
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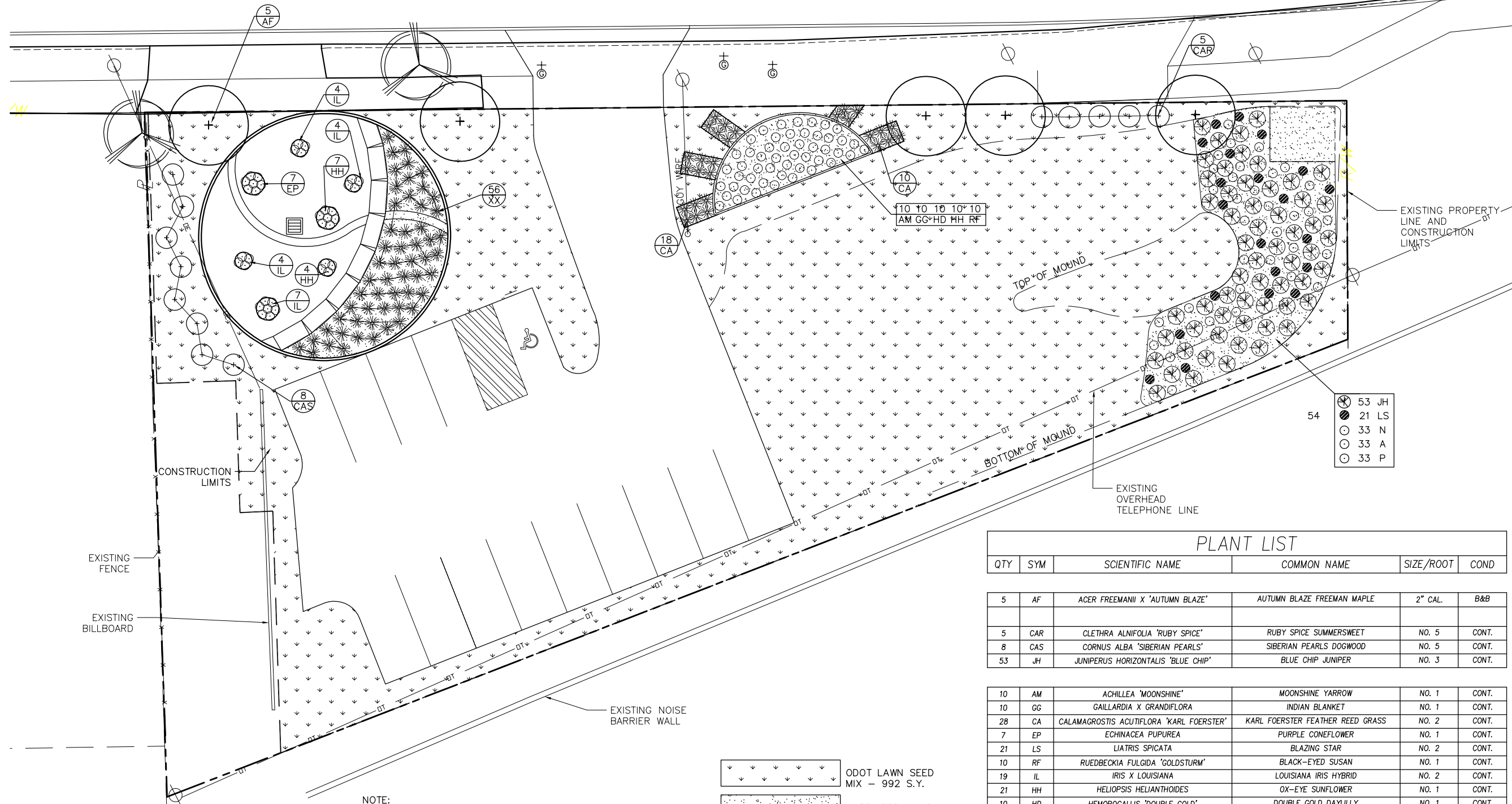
STORMWATER POLLUTION PREVENTION PLAN

COLLINWOOD ARTS DISTRICT
 OUTDOOR THEATRE
 GREEN PARKING LOT
 PHASE 1

0014



WATERLOO ROAD (70' PUBLIC RIGHT-OF-WAY)



NOTE:
 1. PLANT BULBS IN CLUSTERS OF 3 IN DESIGNATED AREAS ACCORDING TO BULB DETAIL ON 0016.
 2. SEED ALL DISTURBED AREAS.

- ODOT LAWN SEED MIX - 992 S.Y.
- HARDWOOD MULCH
- CONSTRUCTION LIMITS

PLANT LIST

QTY	SYM	SCIENTIFIC NAME	COMMON NAME	SIZE/ROOT	COND
-----	-----	-----------------	-------------	-----------	------

5	AF	ACER FREEMANII 'AUTUMN BLAZE'	AUTUMN BLAZE FREEMAN MAPLE	2" CAL.	B&B
5	CAR	CLETHRA ALNIFOLIA 'RUBY SPICE'	RUBY SPICE SUMMERSWEET	NO. 5	CONT.
8	CAS	CORNUS ALBA 'SIBERIAN PEARLS'	SIBERIAN PEARLS DOGWOOD	NO. 5	CONT.
53	JH	JUNIPERUS HORIZONTALIS 'BLUE CHIP'	BLUE CHIP JUNIPER	NO. 3	CONT.

10	AM	ACHILLEA 'MOONSHINE'	MOONSHINE YARROW	NO. 1	CONT.
10	GG	GALLARDIA X GRANDIFLORA	INDIAN BLANKET	NO. 1	CONT.
28	CA	CALAMAGROSTIS ACUTIFLORA 'KARL FOERSTER'	KARL FOERSTER FEATHER REED GRASS	NO. 2	CONT.
7	EP	ECHINACEA PURPUREA	PURPLE CONEFLOWER	NO. 1	CONT.
21	LS	LIATRIS SPICATA	BLAZING STAR	NO. 2	CONT.
10	RF	RUDEBECKIA FULGIDA 'GOLDSTURM'	BLACK-EYED SUSAN	NO. 1	CONT.
19	IL	IRIS X LOUISIANA	LOUISIANA IRIS HYBRID	NO. 2	CONT.
21	HH	HELIOPSIS HELIANTHOIDES	OX-EYE SUNFLOWER	NO. 1	CONT.
10	HD	HEMOROCALLIS 'DOUBLE GOLD'	DOUBLE GOLD DAYLILLY	NO. 1	CONT.
33	A	ALLIUM SPP.	PURPLE ALLIUM	BULB	---
33	N	NARCISSUS SPP.	DAFFODIL	BULB	---
33	P	ALLIUM SPP.	YELLOW ALLIUM	BULB	---

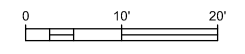
- 53 JH
- 21 LS
- 33 N
- 33 A
- 33 P

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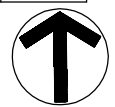


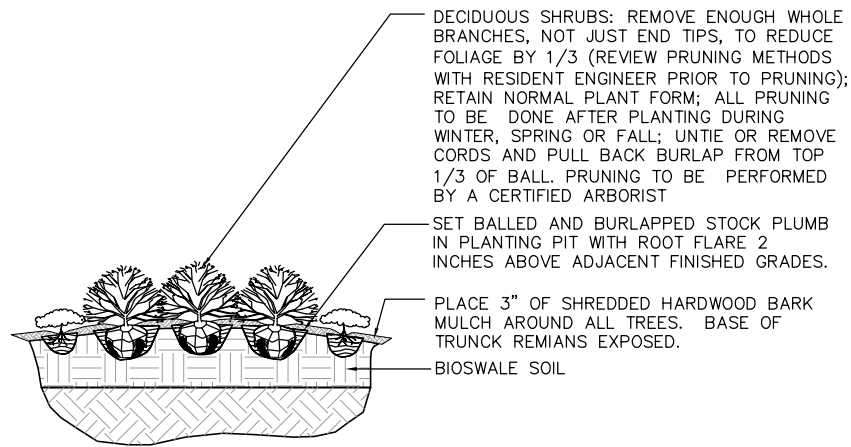
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LANDSCAPE PLAN

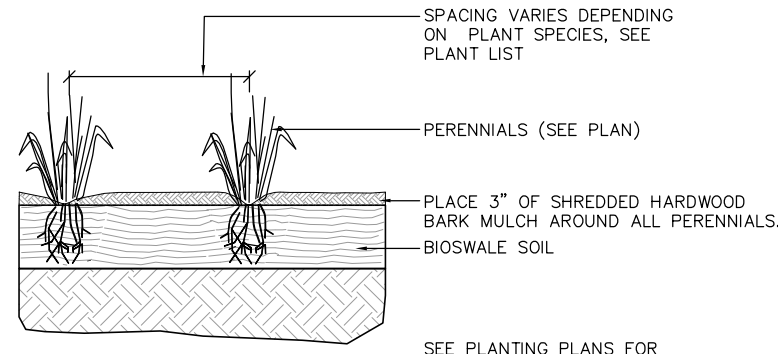
COLLINWOOD ARTS DISTRICT
 OUTDOOR THEATRE
 GREEN PARKING LOT
 PHASE 1

0015

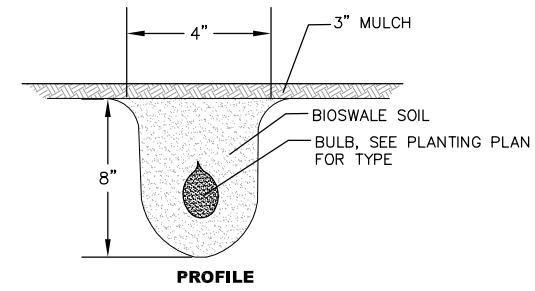




1 DECIDUOUS SHRUBS, TYP.
NTS



2 PERENNIALS, TYP.
NTS



3 BULBS, TYP.
NTS

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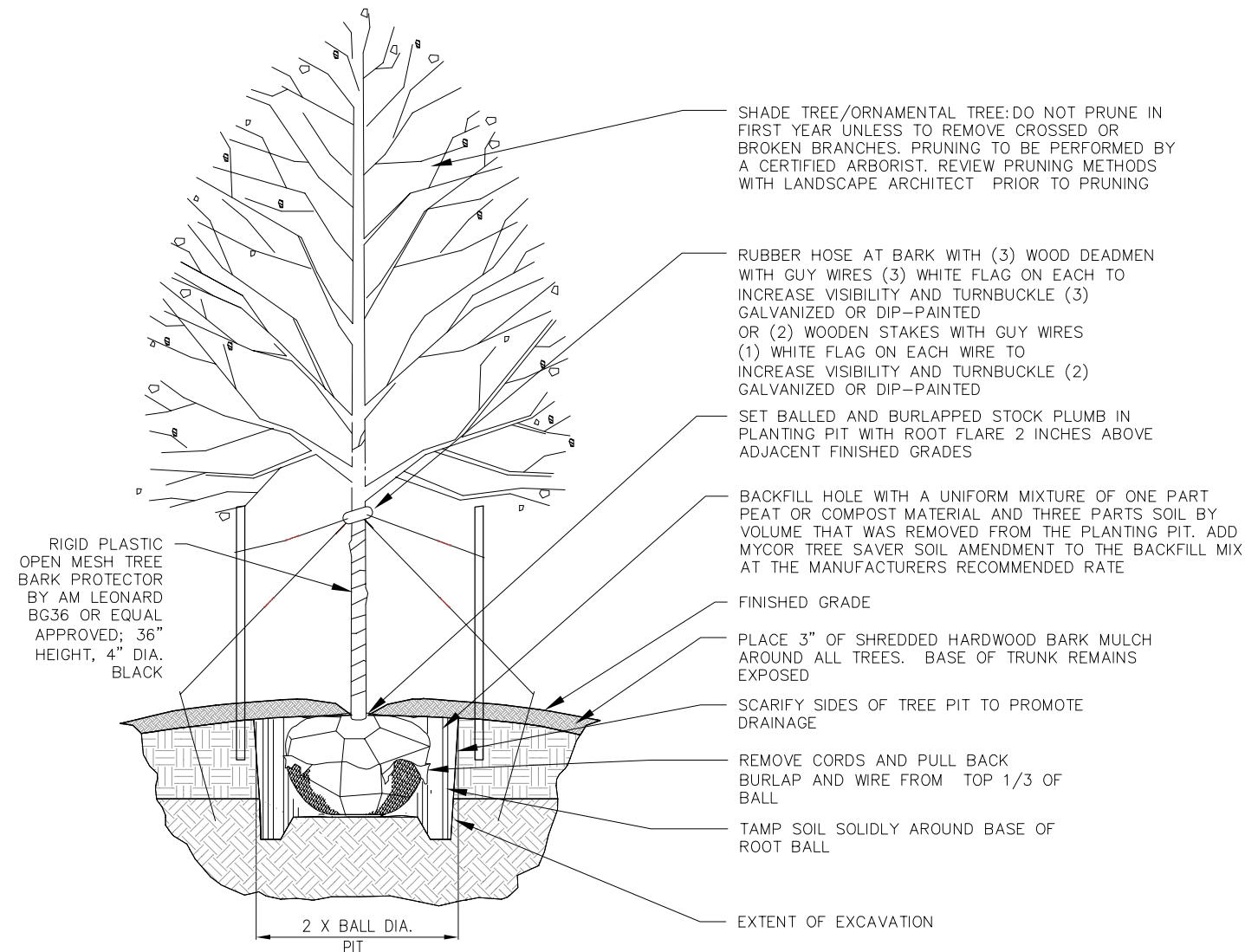
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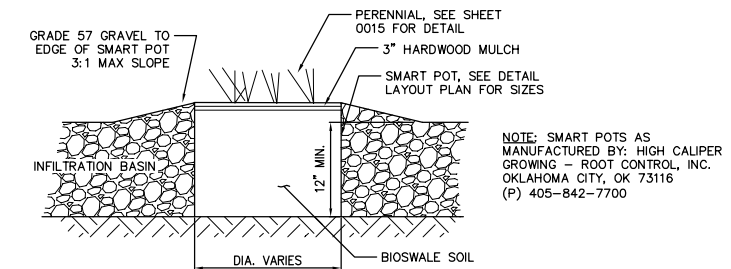
LANDSCAPE DETAILS

COLLINWOOD ARTS DISTRICT
 OUTDOOR THEATRE
 GREEN PARKING LOT
 PHASE 1

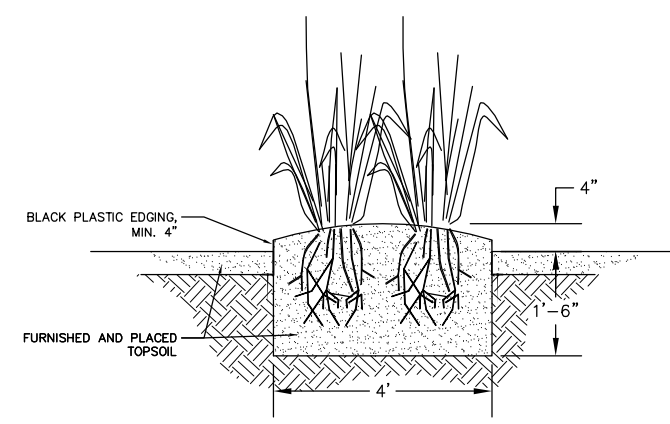
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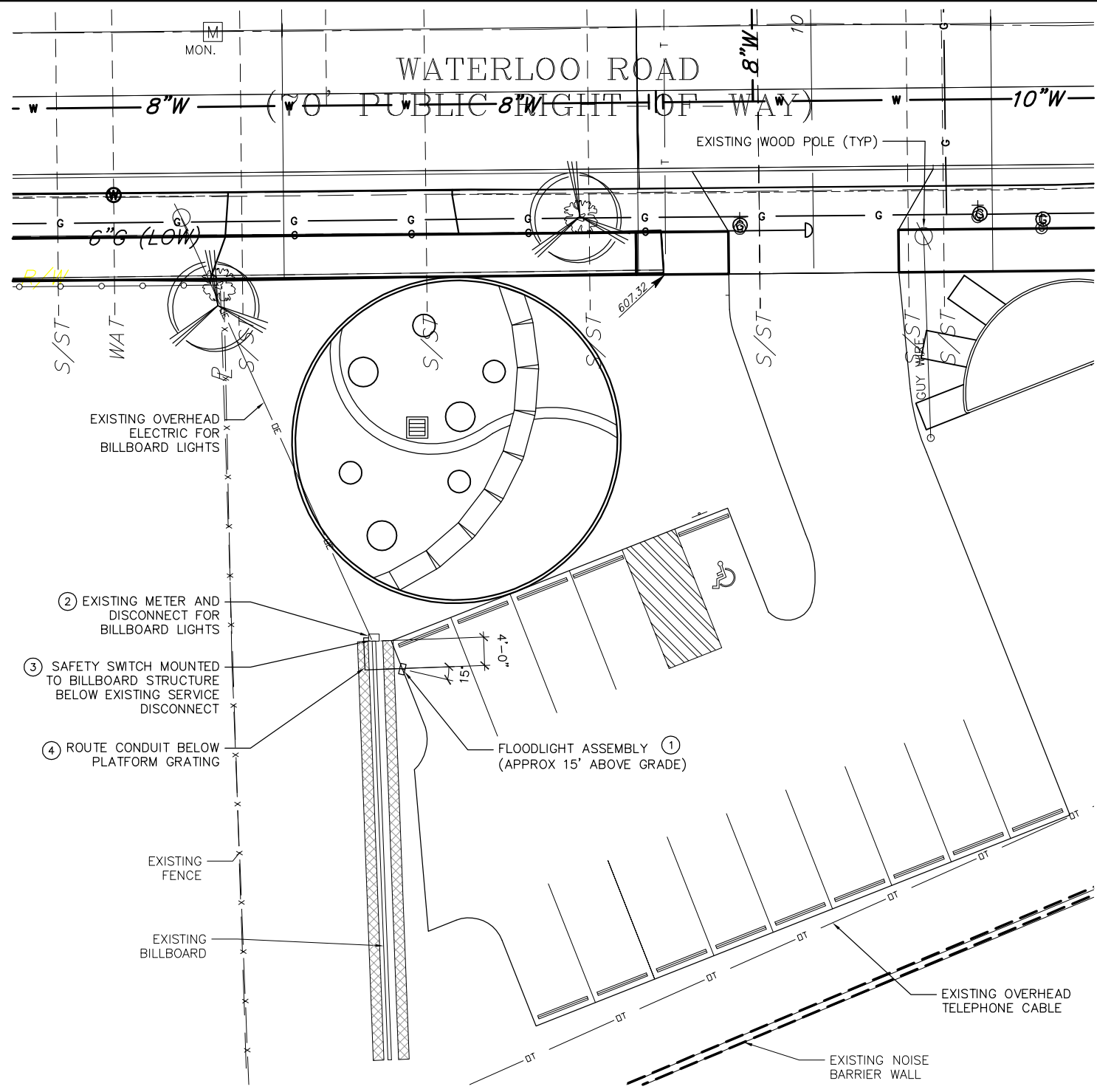
5 DECIDUOUS TREE, TYP.
NTS



4 SMART POT DETAIL
NTS



6 MOUNDED PLANTING BED
NTS



1 ELECTRICAL SITE PLAN
1" = 10'-0"

SHEET KEY NOTES:

- 1 ATTACH FLOODLIGHT TO SIDE OF BILLBOARD PLATFORM USING UNISTRUT. SET TILT ANGLE OF FLOODLIGHT AT 30° BELOW HORIZONTAL. ROTATE FLOODLIGHT 15° SOUTH OF PERPENDICULAR TO BILLBOARD.
- 2 VERIFY EXISTING SERVICE VOLTAGE. TAP LOAD SIDE OF EXISTING SERVICE BREAKER TO FEED NEW SAFETY SWITCH.
- 3 PROVIDE SAFETY SWITCH THAT IS RATED FOR EXISTING SERVICE VOLTAGE. PROVIDE 20A FUSES.
- 4 PROVIDE 2-#12AWG, 1-#12AWG GND CONDUCTORS IN 3/4" CONDUIT FROM EXISTING SERVICE DISCONNECT TO NEW DISCONNECT SWITCH TO NEW FLOODLIGHT.

ELECTRICAL SPECIFICATIONS

PART 1 GENERAL

1.1 REFERENCE

A. ALL APPLICABLE REQUIREMENTS OF OTHER PORTIONS OF THE CONTRACT DOCUMENTS APPLY TO THE WORK OF THIS SECTION.

1.2 GENERAL

A. THE PARTY PERFORMING THE WORK UNDER THIS DIVISION HEREINAFTER REFERRED TO AS THE CONTRACTOR, SHALL FURNISH ALL LABOR, MATERIAL, TOOLS, EQUIPMENT, SERVICES, AND RELATED ACCESSORIES FOR A COMPLETE INSTALLATION OF ALL ELECTRICAL WORK AS INDICATED. ITEMS OMITTED FROM EITHER THE SPECIFICATIONS OR THE DRAWINGS, BUT SHOWN OR DESCRIBED IN ONE OR THE OTHER, AND ALL ITEMS NECESSARY TO MAKE THE ELECTRICAL SYSTEM COMPLETE AND WORKABLE SHALL FORM A PART OF THE WORK.

B. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE CONTRACT DOCUMENTS, IN A NEAT AND WORKMANLIKE MANNER CONSISTENT WITH RECOGNIZED GOOD PRACTICE, AND SHALL BE SUBJECT TO THE APPROVAL OF THE OWNER OR A/E.

C. ALL WORK, MATERIAL, AND EQUIPMENT SHALL COMPLY WITH ALL REQUIREMENTS OF THE LATEST EDITIONS AND INTERIM AMENDMENTS OF THE NATIONAL ELECTRICAL CODE (N.E.C.), NATIONAL ELECTRICAL SAFETY CODE, OSHA, AND ALL APPLICABLE FEDERAL, STATE, AND LOCAL LAWS AND ORDINANCES. ALL ELECTRICAL EQUIPMENT PROVIDED UNDER THIS CONTRACT SHALL BE NEW (EXCEPT WHERE OTHERWISE NOTED) AND SHALL COMPLY WITH THE REQUIREMENTS OF THE UNDERWRITERS' LABORATORIES (U.L.) AND BEAR THE U.L. LABEL. ALL EQUIPMENT OF THE SAME TYPE AND CAPACITY SHALL BE BY THE SAME MANUFACTURER.

D. SHOULD ANY CHANGES IN THE DRAWINGS AND SPECIFICATIONS BE REQUIRED TO CONFORM TO THE ABOVE REGULATIONS, THE CONTRACTOR SHALL NOTIFY THE OWNER OR A/E AT THE TIME OF SUBMITTING HIS BID. AFTER ENTERING INTO THE OWNER-CONTRACTOR AGREEMENT, THE CONTRACTOR SHALL BE HELD TO COMPLETE ALL WORK NECESSARY TO MEET THESE REQUIREMENTS WITHOUT ADDITIONAL EXPENSE TO THE OWNER.

E. THE CONTRACTOR SHALL PROVIDE THE EQUIPMENT SPECIFIED HEREIN, UNLESS SPECIFICALLY APPROVED BY THE A/E BY AMENDMENT PRIOR TO BIDDING.

PART 2 PRODUCTS

2.1 RACEWAYS

A. ALL CONDUIT SHALL BE THREADED RIGID GALVANIZED STEEL, EXCEPT WHERE OTHERWISE NOTED.

2.2 CONDUCTORS

A. ALL SINGLE CONDUCTOR WIRE SHALL BE 600 VOLT, TYPE XHHW, OR THWN WITH COPPER CONDUCTORS, EXCEPT WHERE OTHERWISE NOTED.

2.3 DISCONNECT SWITCHES

A. 30A, 240V, 2P, FUSED HD SAFETY SWITCH IN NEMA 3R ENCL. WITH LOCK 'ON' EATON #DH221NRKLO

B. 30A, 600V, 2P, FUSED HD SAFETY SWITCH IN NEMA 3R ENCL. WITH LOCK 'ON' EATON #DH261FRKLO

2.4 LIGHT FIXTURE

A. FLOODLIGHT, 250W HPS, BLACK, PHOTOCCELL, WALL MOUNT BRACKET. GARDCO #DF12-WMB-VFL-250HPS-(VOLTAGE TBD)-BLP-PCB

PART 3 INSTALLATION

3.1 GENERAL

A. ALL ELECTRICAL EQUIPMENT SHALL BE INSTALLED PER THE MANUFACTURER'S RECOMMENDATIONS.

B. THE CONTRACTOR SHALL CONDUCT SUCH TESTS AND ADJUSTMENTS OF EQUIPMENT AS REQUIRED TO VERIFY EQUIPMENT PERFORMANCE. SUCH TESTS SHALL BE CONDUCTED IN THE PRESENCE OF THE OWNER AND/OR A/E.

C. ALL EQUIPMENT FURNISHED WITH FINISHED SURFACES FROM MANUFACTURER ARE NOT TO BE DEFACED AND SHALL BE CLEANED TO ORIGINAL FINISH AT TIME OF COMPLETION OF WORK.

D. THE CONTRACTOR SHALL REMOVE ALL DEBRIS RESULTING FROM THE WORK, AS WELL AS ALL TOOLS, EQUIPMENT, ETC., FROM THE SITE UPON COMPLETION OF THIS CONTRACT.

E. ALL EQUIPMENT, INCLUDING LIGHTING FIXTURES AND LENSES SHALL BE CLEAN AND FREE FROM DIRT, GREASE, FINGER MARKS, ETC. BEFORE FINAL ACCEPTANCE.

GENERAL NOTES:

A. COORDINATE WORK WITH CLEAR CHANNEL (OWNER OF BILLBOARD).

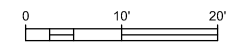


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ELECTRICAL PLAN AND SPECIFICATIONS

COLLINWOOD ARTS DISTRICT
 OUTDOOR THEATRE
 GREEN PARKING LOT
 PHASE 1

0017