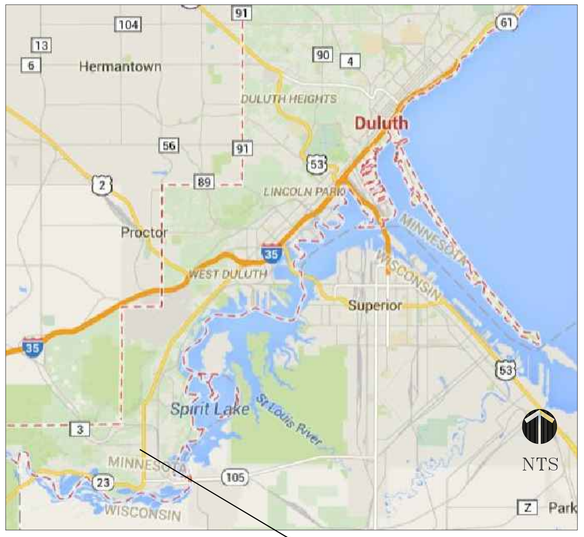
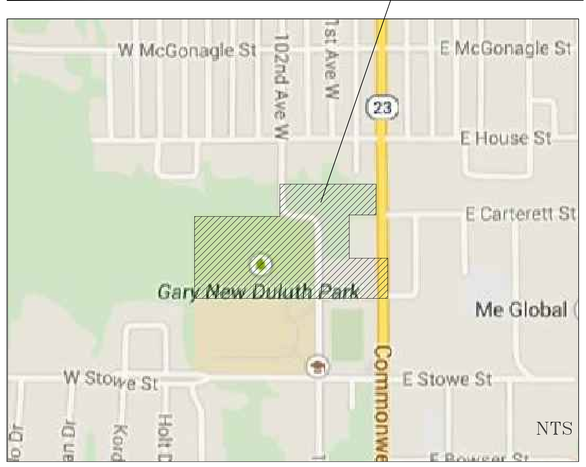
GARY NEW DULUTH RECREATION CENTER IMPROVEMENTS

WEST CARTERETT STREET AND 101ST AVENUE WEST
DULUTH, MN

VICINITY MAP



SITE DETAIL



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SHEET INDEX

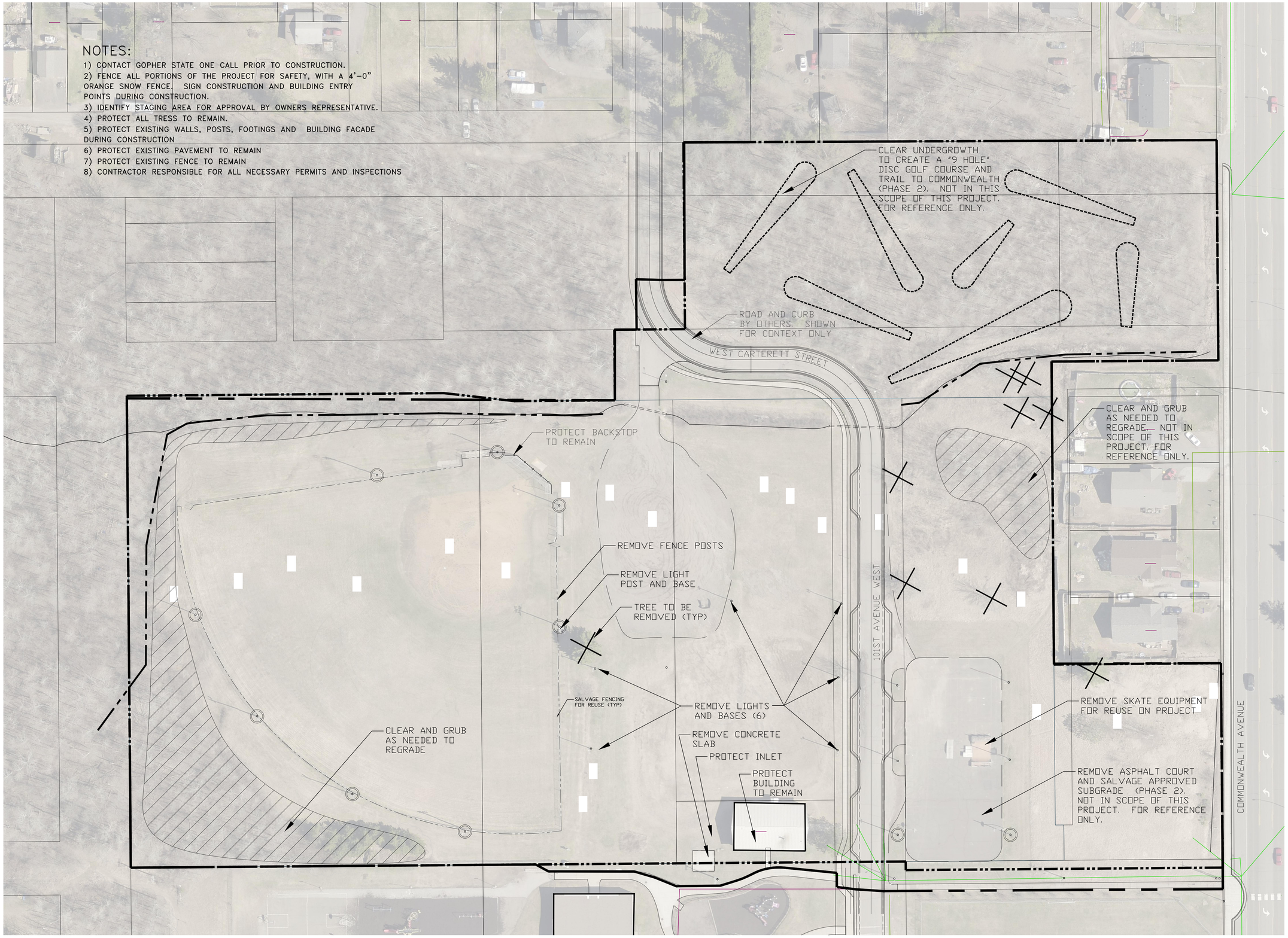
D1.1	REMOVALS PLAN
P1.0	OVERALL COORDINATION PLAN
G1.0	OVERALL GRADING PLAN
G1.1	PHASE 1 GRADING PLAN
G1.2	DRAINTILE LAYOUT PLAN
EC1.0	EROSION CONTROL NOTES
EC1.1	EROSION CONTROL NOTES AND DETAILS
L1.0	OVERALL LAYOUT PLAN
L1.1	PHASE 1 LAYOUT PLAN
L1.2	NORTH PARKING LOT LAYOUT PLAN
L1.3	EAST AREA DETAILS PLAN
L1.4	EAST PARKING/WALK LAYOUT PLAN
L1.5	SPORTS FIELD DETAILS
L1.6	OVERALL PROJECT DETAILS
L1.7	40' STRUCTURE DETAILS
L1.8	24' STRUCTURE DETAILS
L1.9	10' STRUCTURE DETAILS
LA1.0	OVERALL LANDSCAPE PLAN
LA1.1	DETAIL LANDSCAPE PLAN
LA1.2	LANDSCAPE DETAILS

THESE DESIGN DRAWINGS WERE FUNDED IN PART BY THE COASTAL ZONE MANAGEMENT ACT OF 1972, AS AMENDED BY NOAA'S OFFICE OF OCEAN AND COASTAL RESOURCE MANAGEMENT, IN CONJUNCTION WITH MINNESOTA'S LAKE SUPERIOR COASTAL PROGRAM.

The GND Development Alliance, a 501 (c) 3 non-profit, initiated a project to revitalize and transform the Gary New Duluth Recreation Area into a fully functioning community center and recreation area. The project has progressed to the point where it is a shared project with the strong support of the City of Duluth. Strong private sector support in the form of below market value bid is necessary to ensure success. Donations tied to your bid can be tax deductible (discuss with your account to ensure compliance with applicable tax laws as you formulate your bid).

NOTES:

1) CONTACT GOPHER STATE ONE CALL PRIOR TO CONSTRUCTION.
2) FENCE ALL PORTIONS OF THE PROJECT FOR SAFETY, WITH A 4'-0" ORANGE SNOW FENCE. SIGN CONSTRUCTION AND BUILDING ENTRY POINTS DURING CONSTRUCTION.
3) IDENTIFY STAGING AREA FOR APPROVAL BY OWNERS REPRESENTATIVE.
4) PROTECT ALL TRESS TO REMAIN.
5) PROTECT EXISTING WALLS, POSTS, FOOTINGS AND BUILDING FACADE DURING CONSTRUCTION
6) PROTECT EXISTING PAVEMENT TO REMAIN
7) PROTECT EXISTING FENCE TO REMAIN
8) CONTRACTOR RESPONSIBLE FOR ALL NECESSARY PERMITS AND INSPECTIONS



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ISSUE RECORD/REVISION

PURPOSE	DATE

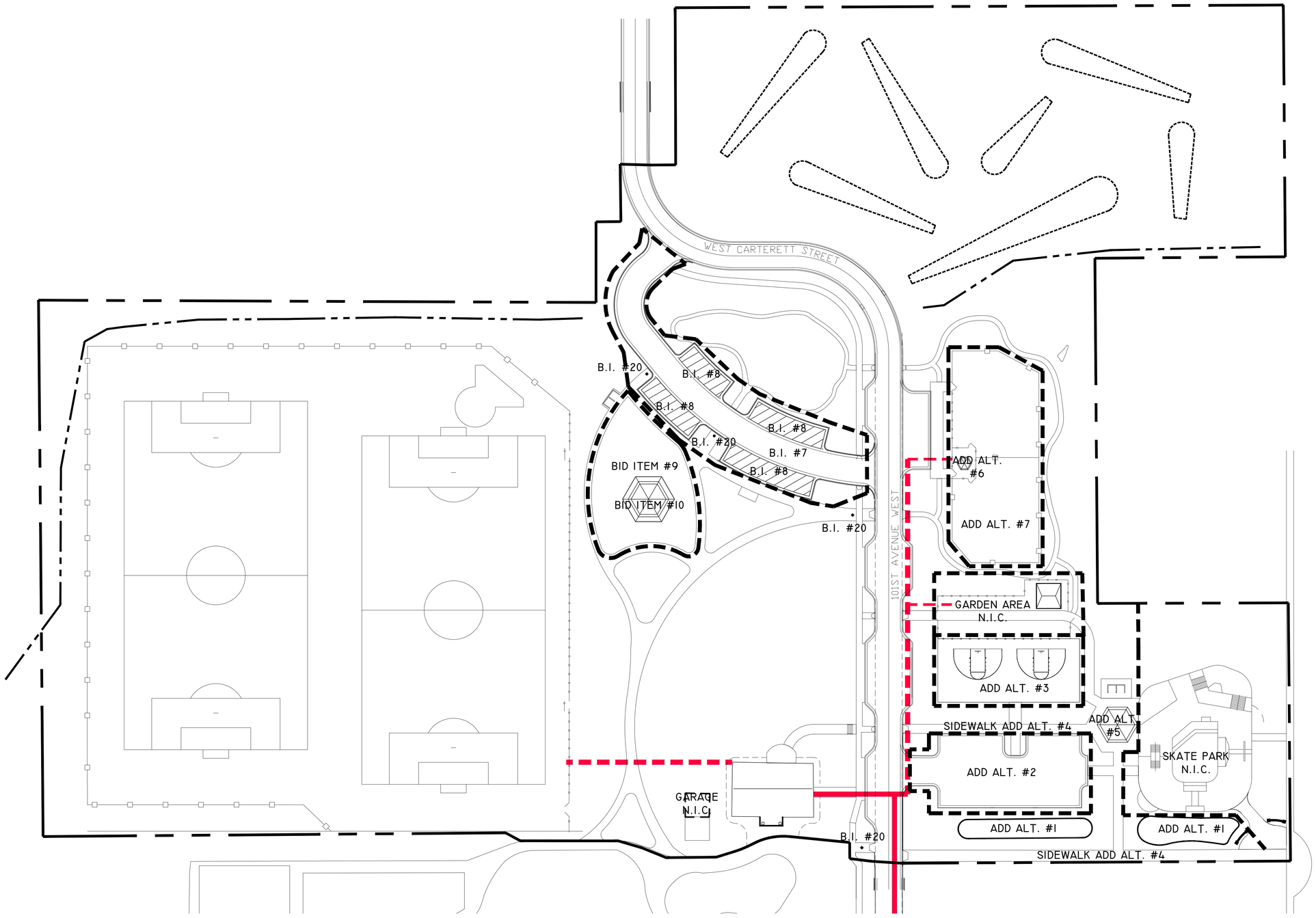
GARY NEW DULUTH COMMUNITY CENTER AND RECREATION AREA

0 30' 60'
ONE INCH

SHEET KEY

SHEET TITLE
REMOVALS PLAN

DATE: 5/21/15
DRAWN BY: LWS
CHECKED BY: LWS
PROJECT NUMBER 13340
SHEET NUMBER D1.1



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Issue Record/Revision

Purpose	Date

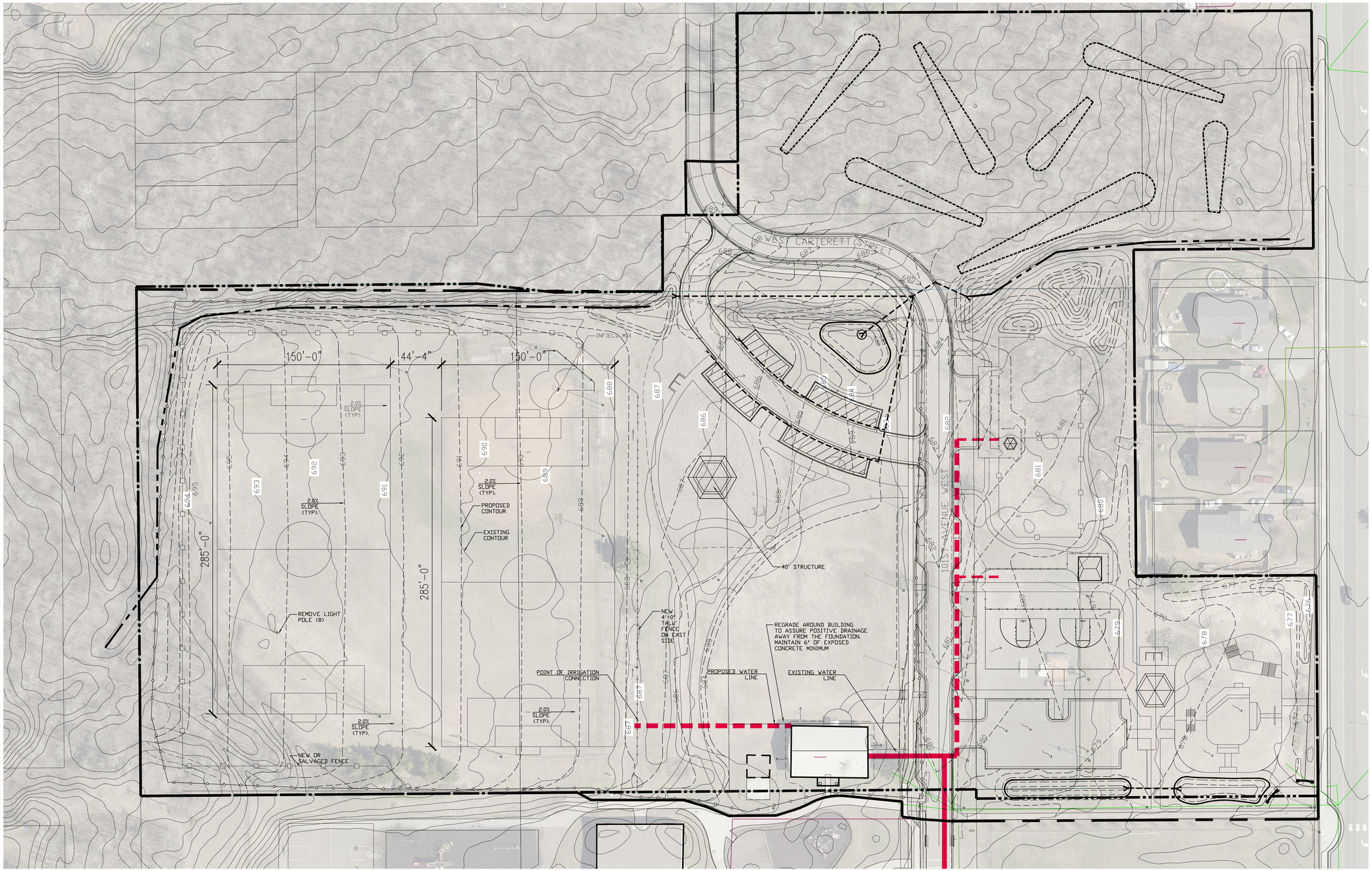
GARY NEW DULUTH COMMUNITY CENTER AND RECREATION AREA

0 40' 80'
ONE INCH

Sheet Key

Sheet Title
OVERALL COORDINATION PLAN

Date: 5/21/15
Drawn By: LWS
Checked By: LWS
Project Number: 13340
Sheet Number: P1.0



NOTE:
CURBING AND SIDEWALK ARE FOR REFERENCE ONLY.
NOT IN THIS CONTRACT (NIC)

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Purpose	Date

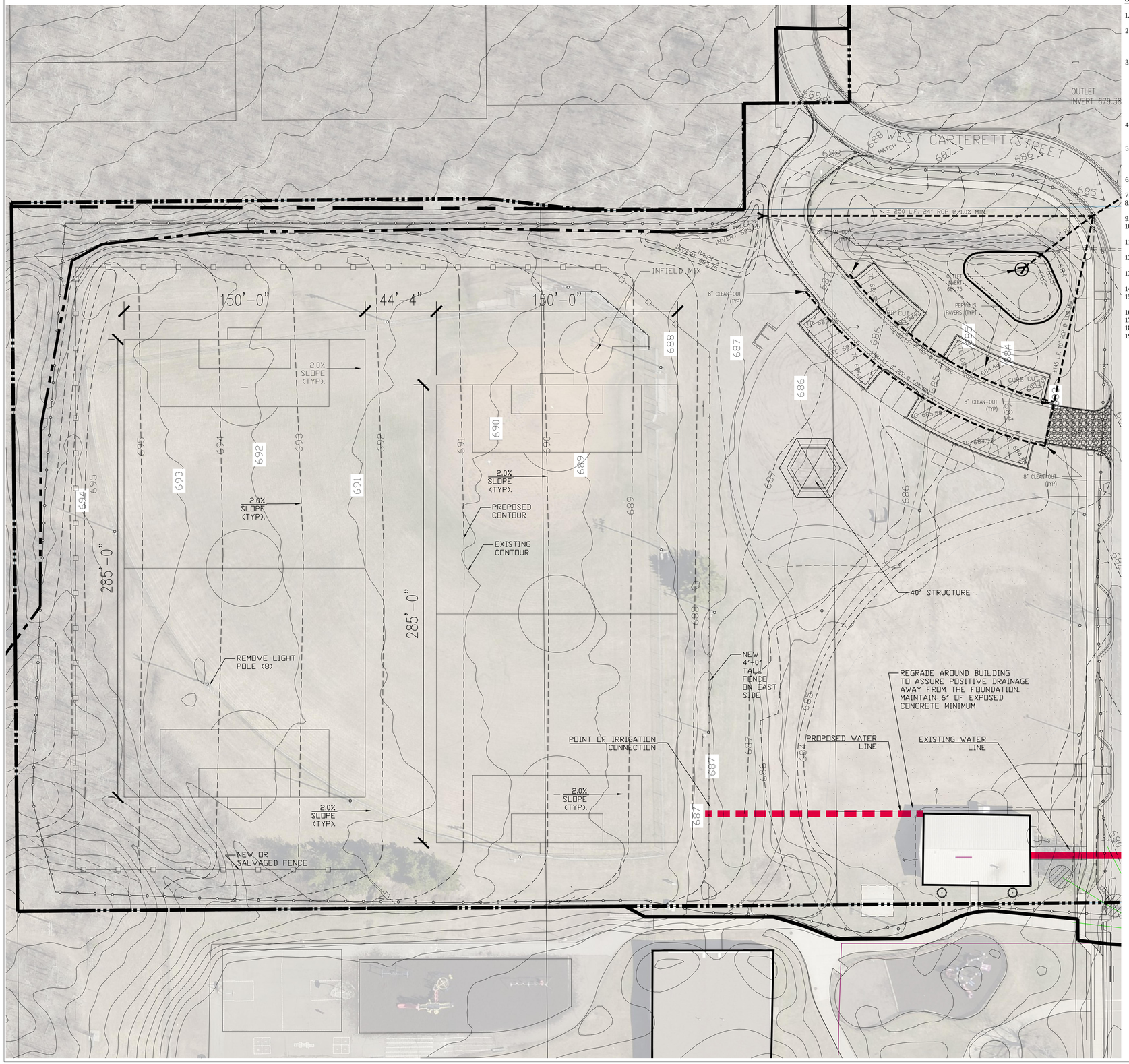
GARY NEW DULUTH COMMUNITY CENTER AND RECREATION AREA

0 40' 80'
ONE INCH

Sheet Key

Sheet Title
OVERALL GRADING PLAN

Date: 5/21/15
Drawn By: LWS
Checked By: LWS
Project Number 13340
Sheet Number G1.0



SITE CONSTRUCTION NOTES:

1. EXISTING PLAN FROM SITE SURVEY BY THE CITY OF, DULUTH, MN. VERIFY EXISTING CONDITIONS AND REPORT ANY DISCREPANCIES TO THE PROJECT MANAGER IMMEDIATELY.
2. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATIONS OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. CONTRACTOR AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGE WHICH MIGHT BE CAUSED BY THE CONTRACTOR'S FAILURE TO LOCATE AND PRESERVE ANY AND ALL UTILITIES. CALL GOPHER ONE AT 1.800.252.1166.
3. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR IMPLEMENTATION AND ON-GOING MAINTENANCE OF STORM WATER AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES (BMP) AND COMPLIANCE WITH ALL STATE OF MINNESOTA AND CITY OF HERMANTOWN EROSION AND SEDIMENT CONTOL REGULATIONS. THIS CONTRACTOR SHALL CONDUCT THEIR WORK IN A MANNER TO LIMIT EROSION AND TO PRESERVE THE EROSION AND SEDIMENT CONTROL BMP MEASURES. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR ANY RE-ESTABLISHMENT AND RESTORATION THAT MAY BE NECESSARY DUE TO THEIR FAILURE TO CONDUCT THEIR WORK IN A CAREFUL RESPONSIBLE MANNER.
4. PERIMETER SEDIMENT BMP'S SHALL BE IMPLEMENTED PRIOR TO THE START OF CONSTRUCTION ACTIVITY. STORM INLET PROTECTION SHALL BE MAINTAINED ON ALL STORM DRAINAGE STRUCTURES.
5. ALL EROSION AND SEDIMENT CONTROL BMP'S SHALL REMAIN IN PLACE AND BE MAINTAINED AS OPERATIONAL UNTIL PERMANENT VEGETATIVE COVER IS ESTABLISHED AND ALL PAVING IS COMPLETE. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING ALL EROSION CONTROL PROTECTION ITEMS FROM THE SITE AT THE COMPLETION OF THE PROJECT.
6. ALL HORIZONTAL AND VERTICAL CONTROL POINTS SHALL BE ESTABLISHED AND MAINTAINED BY THE GENERAL CONTRACTOR.
7. ALL GRADES AND ELEVATIONS SHOWN ARE FINISHED GRADES AND ELEVATIONS.
8. RESTORE ALL AREAS DISTURBED BY CONSTRUCTION WITH TOPSOIL AND PLANTING BEDS/SOD/SEED/MULCH AS SPECIFIED AND INDICATED ON PLANS.
9. ALL GRADES SHALL SLOPE AWAY FROM THE BUILDING AT A 2% MINIMUM SLOPE.
10. ALL SIDEWALKS, CURB RAMPS, AND OTHER SITE ELEMENTS MUST CONFORM TO THE STATE OF MINNESOTA ACCESS CODES AND STANDARDS, AND WITH FEDERAL ADA GUIDELINES
11. IN THE EVENT OF A DISCREPANCY WITH PLANT QUANTITIES, THE PLAN, NOT THE PLANT LIST SHALL GOVERN THE REQUIRED QUANTITIES.
12. COORDINATE ALL WORK BETWEEN TRADES. NOTIFY THE PROJECT MANAGER IMMEDIATELY OF ANY CONFLICT THAT AFFECTS THIS SITE WORK.
13. CONTRACTOR TO PROVIDE IRRIGATION SHOP DRAWINGS FOR APPROVAL PRIOR TO BEGINNING WORK.
14. ALL CONCRETE SHALL BE A MINIMUM 4000 PSI WITH FIBERMESH REINFORCEMENT.
15. PROTECT ALL FENCING THAT MAY BE SALVAGED AND REUSED. PROPERLY DISPOSE OF ALL UNUSABLE FENCING MATERIALS.
16. CONTRACTOR TO OBTAIN CITY PERMITS AND APPROVALS PRIOR TO BEGINNING WORK.
17. CONTRACTOR TO OBTAIN APPROPRIATE DESIGN PROFESSIONALS STAMP FOR ASSOCIATED WORK.
18. PROTECT BACKSTOP DURING CONSTRUCTION
19. ADD FENCING TO BACKSTOP AS NEEDED TO MEET SECTION

LEGEND

- SILT FENCE
- DANDY BAG
- BIO ROLL
- ROCK CONSTRUCTION ENTRANCE

NOTE:

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ISSUE RECORD/REVISION

PURPOSE	DATE

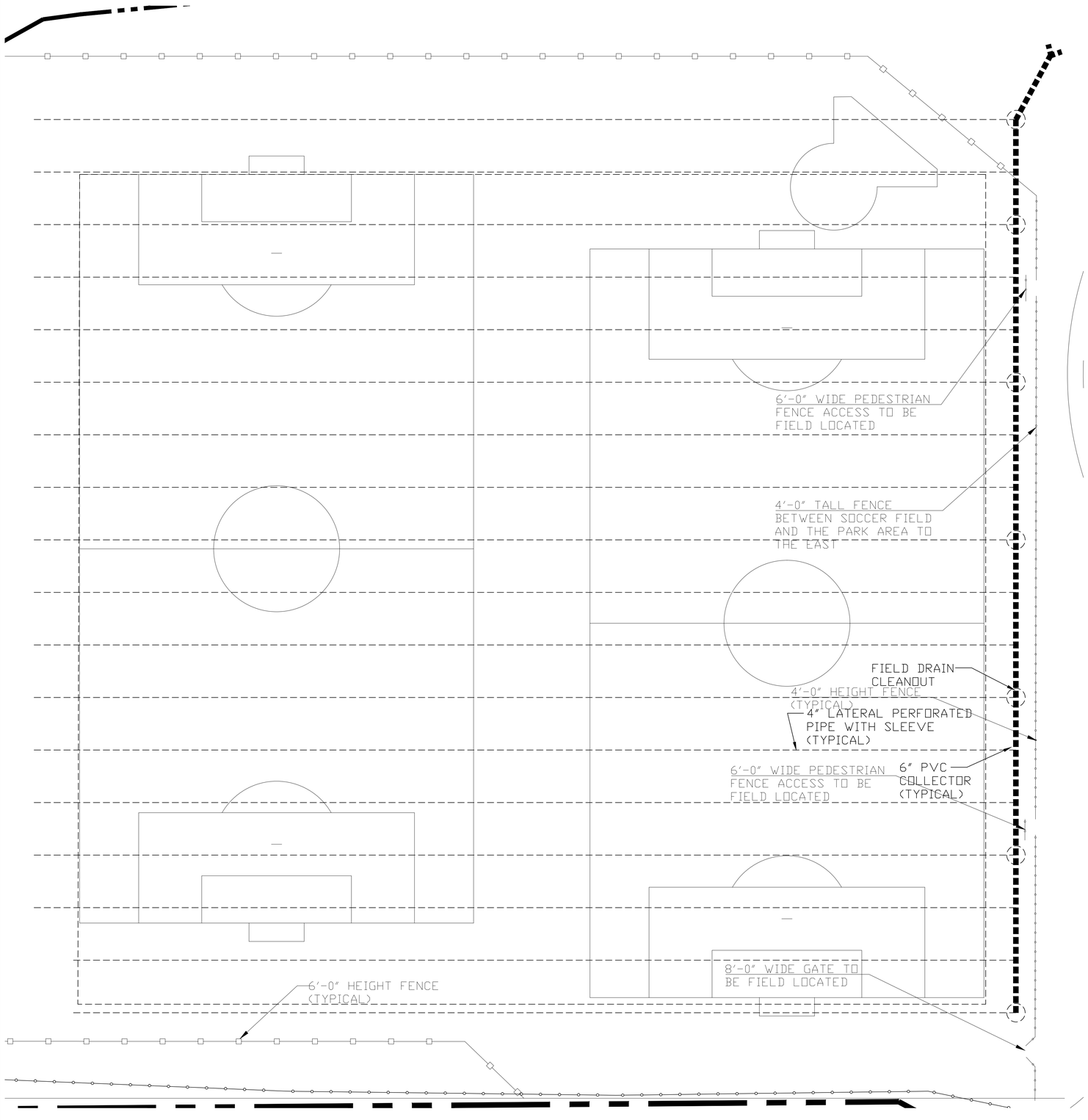
GARY NEW DULUTH COMMUNITY CENTER AND RECREATION AREA

0 30' 60'
ONE INCH

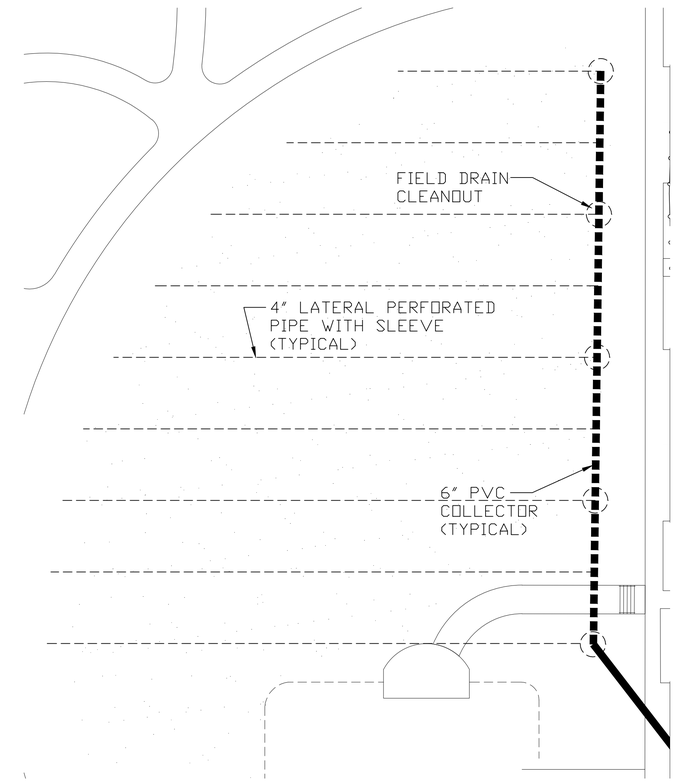
SHEET KEY

SHEET TITLE
PHASE I
GRADING PLAN

DATE: 5/21/15
DRAWN BY: LWS
CHECKED BY: LWS
PROJECT NUMBER 13340
SHEET NUMBER G1.1



1 G1.2 SOCCER FIELD DRAINTILE LAYOUT
SCALE: 1"=20'-0"



2 G1.2 SKATING AREA DRAINTILE LAYOUT
SCALE: 1"=20'-0"

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Issue Record/Revision

Purpose	Date

GARY NEW DULUTH COMMUNITY CENTER AND RECREATION AREA

Sheet Key

Sheet Title
DRAINTILE LAYOUT PLAN

Date: 5/21/15
Drawn By: LWS
Checked By: LWS
Project Number 13340
Sheet Number G1.2

RESPONSIBILITIES

THE PROPERTY OWNER OR CONTRACTOR MUST SUBMIT A COMPLETED NPDES APPLICATION FORM WITH THE $400 APPLICATION FEE.

THE OWNER AND OPERATOR (USUALLY THE GENERAL CONTRACTOR) ARE JOINTLY RESPONSIBLE FOR ALL TERMS AND CONDITIONS OF THE PERMIT.

PROPERTY OWNER TO SUBMIT NPDES NOTICE OF INTENT PERMIT 7 DAYS PRIOR TO THE BEGINNING OF CONSTRUCTION.

CONTRACTOR TO SUBMIT NPDES NOTICE OF TERMINATION TO OWNER WITHIN ONE WEEK OF FINAL RESTORATION ACCEPTANCE. OWNER WILL SEND INTO MPCA.

CONTRACTOR TO MONITOR AND REPORT ON STORM WATER MANAGEMENT REQUIREMENTS PER MPCA.

FOR STORM WATER DISCHARGES FROM CONSTRUCTION PROJECTS WHERE THE OWNER OR OPERATOR CHANGES, THE NEW OWNER OR OPERATOR MUST SUBMIT A SUBDIVISION REGISTRATION WITHIN SEVEN (7) DAYS OF ANY OF THE FOLLOWING:

1. ASSUMING OPERATIONAL CONTROL OF THE SITE.
2. COMMENCING WORK ON THEIR PORTION OF THE SITE.
3. LEGAL TRANSFER, SALE OR CLOSING ON THE PROPERTY.

THE CONTRACTOR MUST IDENTIFY A PERSON KNOWLEDGEABLE AND EXPERIENCED IN THE APPLICATION OF EROSION PREVENTION AND SEDIMENT CONTROL BMP'S WHO WILL:

1. OVERSEE THE IMPLEMENTATION OF THE SWPPP
2. OVERSEE THE INSTALLATION, INSPECTION AND MAINTENANCE OF EROSION PREVENTION AND SEDIMENT CONTROL BMP'S BEFORE AND DURING CONSTRUCTION.

THE OWNER MUST IDENTIFY WHO WILL HAVE THE LONG TERM RESPONSIBILITY FOR LONG TERM OPERATION AND MAINTENANCE OF THE PERMANENT STORM WATER MANAGEMENT SYSTEM AND DEVELOP A CHAIN OF RESPONSIBILITY WITH ALL OPERATORS ON THE SITE TO ENSURE THAT THE SWPPP WILL BE IMPLEMENTED AND STAY IN EFFECT UNTIL FINAL STABILIZATION AND SUBMITTAL OF THE NOT.

REQUIREMENTS

THE SWPPP MUST INCLUDE:

1. LOCATION AND TYPE OF ALL TEMPORARY AND PERMANENT EROSION PREVENTION AND SEDIMENT CONTROL BMP'S, INCLUDING PROCEDURES USED TO ESTABLISH ADDITIONAL TEMPORARY BMP'S AS NECESSARY FOR THE SITE CONDITIONS DURING CONSTRUCTION.
2. A SITE MAP WITH EXISTING AND FINAL GRADES.
3. DRAINAGE DIVIDING LINES AND DIRECTION OF FLOWS FOR PRE AND POST-CONSTRUCTION STORM WATER RUNOFF DRAINAGE AREAS.
4. IMPERVIOUS AREAS AND SOIL TYPES.
5. LOCATION OF AREAS NOT TO BE DISTURBED.
6. LOCATION OF AREAS WHERE CONSTRUCTION WILL BE PHASED TO MINIMIZE DURATION OF EXPOSED SOIL AREAS.
7. ALL SURFACE WATERS AND EXISTING WETLANDS.
8. METHODS TO BE USED FOR FINAL STABILIZATION OF ALL EXPOSED SOIL AREAS.

THE PERMITTEE MUST AMEND THE SWPPP AS NECESSARY TO INCLUDE ADDITIONAL REQUIREMENTS, SUCH AS ADDITIONAL OR MODIFIED BMP'S, DESIGNED TO CORRECT PROBLEMS IDENTIFIED OR ADDRESS SITUATIONS WHENEVER:

1. THERE IS A CHANGE IN DESIGN, CONSTRUCTION, OPERATION OR MAINTENANCE.
2. WEATHER OR SEASONAL CONDITIONS THAT HAVE SIGNIFICANT EFFECT ON DISCHARGE.
3. INSPECTION OR INVESTIGATION BY SITE OPERATORS, LOCAL, STATE, OR FEDERAL OFFICIALS INDICATE THE SWPPP IS NOT EFFECTIVE.
4. THE SWPPP IS NOT ACHIEVING THE GENERAL OBJECTIVES OF CONTROLLING POLLUTANTS OR THE SWPPP IS NOT CONSISTENT WITH THE TERMS AND CONDITIONS OF THIS PERMIT.
5. THE MPCA DETERMINES THAT DISCHARGE MAY CAUSE OR CONTRIBUTE TO NON-ATTAINMENT OF ANY APPLICABLE WATER QUALITY STANDARDS OR THE SWPPP DOES NOT INCORPORATE THE REQUIREMENTS RELATED TO AN APPROVED TOTAL MAXIMUM DAILY LOAD (TMDL): THE RUNOFF FROM THE SITE DISCHARGES TO AN IMPAIRED WATER WHICH HAS AN APPROVED TMDL AND HAS NOT BEEN PROPERLY DETAILED IN THE SWPPP.

STORM WATER PONDS, SEDIMENT BARRIERS AND OTHER MEASURES INTENDED TO TRAP SEDIMENT ON-SITE WILL BE CONSTRUCTED AS A FIRST STEP IN GRADING, AND WILL BE MADE FUNCTIONAL BEFORE LAND DISTURBANCE TAKES PLACE UPSLOPE. EARTHEN STRUCTURES SUCH AS DAMS, DIKES AND DIVERSIONS MUST BE SEEDED AND MULCHED WITHIN 48 HOURS OF INSTALLATION. UTILITY AND PAVING WORK WILL COMMENCE UPON COMPLETION OF THE GRADING OPERATIONS. ALL EROSION CONTROL MEASURES AND PROTECTIVE FENCING MUST BE INSTALLED PRIOR TO BEGINNING OF ANY GRADING.

RESPREAD TOPSOIL AND ESTABLISH TURF ON ALL ROUGH GRADED AREAS OTHER THAN THOSE DESIGNATED FOR PADS, BITUMINOUS, AND CONCRETE WITHIN 48 HOURS AFTER COMPLETION OF EARTH MOVING.
GENERAL AREA SEED MIX: MNDOT SPEC. 3876.2 MIXTURE 130B.
MULCH: MNDOT TYPE 1 DISC ANCHORED, 2 TONS PER ACRE.
FERTILIZER: COMMERCIAL 10/10/10 (PHOSPHATE LIMITED TO NO MORE THAN 400 LBS. PER ACRE)

RESPREAD TOPSOIL AND ESTABLISH TURF ON ALL FINAL GRADED AREAS WITHIN 72 HOURS AFTER COMPLETION OF FINAL GRADING
GENERAL AREA SEED MIX: MNDOT SPEC. 3876.2 MIXTURE 50B.
MULCH: MNDOT TYPE 1 DISC ANCHORED, 2 TONS PER ACRE
FERTILIZER: COMMERCIAL 10/10/10 (PHOSPHATE LIMITED TO NO MORE THAN 400 LBS/AC)

MAINTAIN ALL EROSION CONTROL ITEMS, REMOVE ACCUMULATED SEDIMENTS, CLEAN UP MUD TRACKED FROM THE SITE ON TO ADJACENT STREETS, AND CONTROL DUST (PER MNDOT SPEC 2130 AS NECESSARY TO ELIMINATE SIGNIFICANT DUST PER REQUIREMENTS OF ENGINEER, OWNER, AND/OR CITY, UNTIL SUCH TIME AS THE ENGINEER HAS ACCEPTED THE WORK.

TEMPORARY STOCKPILES MAY BE LEFT ON THE SITE FOR USE IN BACKFILL REPLENISHMENT. STOCKPILES MUST HAVE SILT FENCE OR OTHER EFFECTIVE BMP'S TO CONTROL RUNOFF. STOCKPILES CANNOT BE PLACED IN SURFACE WATER CONVEYANCE DEVICES (CURB AND GUTTER, SWALES OR DITCHES). TOPSOIL WILL BE RESPREAD PROGRESSIVELY AS THE GRADING WORK CONTINUES. IF STOCKPILES ARE TO REMAIN FOR MORE THAN 60 DAYS, TEMPORARY SEEDING MUST BE PLACED.

THE PERMITTEE MUST IMPLEMENT THE SWPPP AND INSTALL BMP'S IDENTIFIED IN THE SWPPP IN AN APPROPRIATE AND FUNCTIONAL MANNER.

THE LOCATION OF AREAS NOT TO BE DISTURBED MUST BE DELINEATED ON THE SITE BEFORE DEVELOPMENT BEGINS.

ALL EXPOSED AREAS WITH A CONTINUOUS POSITIVE SLOPE WITHIN 200 FEET OF A SURFACE WATER MUST HAVE TEMPORARY EROSION PROTECTION OR PERMANENT COVER FOR THE EXPOSED SOIL AREA, YEAR ROUND, WITH THE FOLLOWING MAXIMUM TIMES AND AREA CAN REMAIN OPEN WHEN THE AREA IS NOT ACTIVELY BEING WORKED:

1. SLOPES STEEPER THAN 3:1 (7 DAYS).
2. SLOPES OF 10:1 TO 3:1 (14 DAYS).
3. SLOPES OF 10:1 OR FLATTER (21 DAYS).

THE NORMAL WETTED PERIMETER OF ANY TEMPORARY OR PERMANENT DRAINAGE DITCH THAT DRAINS WATER FROM A CONSTRUCTION SITE OR DIVERTS WATER AROUND A SITE, MUST BE STABILIZED WITHIN 200 FEET FROM THE PROPERTY EDGE, OR FROM THE POINT OF DISCHARGE TO ANY SURFACE WATER WITHIN 24 HOURS OF CONNECTING TO A SURFACE WATER.

THE OWNER WILL INSPECT SILT FENCE PRIOR TO ANY LAND ALTERATION. ALL SILT FENCE SHALL BE CONSTRUCTED WITH WOOD OR STEEL POSTS (SEE DETAIL).

ALL EROSION CONTROL MEASURES MUST BE INSTALLED AND MAINTAINED ACCORDING TO THE DETAILS INCLUDED IN THE CONSTRUCTION DOCUMENTS. ALL SILT MUST BE REMOVED FROM SILT FENCE WHEN IT REACHES A HEIGHT EQUAL TO ONE-THIRD OF THE HEIGHT OF THE SILT FENCE. THE CONTRACTOR MUST PERFORM ANY CORRECTIVE MEASURES ORDERED BY THE OWNER, LOCAL GOVERNMENT UNIT, OR MPCA WITHIN 24 HOURS OF SUCH NOTICE. THE CONTRACTOR SHALL ALSO PLACE ANY ADDITIONAL EROSION CONTROL MEASURES DEEMED NECESSARY BY THE OWNER OR MPCA WITHIN 24 HOURS OF NOTICE. ALL MEASURES MUST BE REPLACED OR REPAIRED WITH THE APPROVAL OF OWNER, AND MPCA, WHEN THEY BECOME NONFUNCTIONAL.

ORANGE POLY SNOW FENCING MUST BE PLACED AROUND ALL NATURAL FEATURES THAT ARE TO BE PRESERVED. THIS INCLUDES ALL TREES, WETLANDS, SLOPES, ETC. IN LOCATIONS WHERE PLACEMENT OF PROTECTION FENCING COINCIDES WITH THE PLACEMENT OF SILT FENCE, THE TOP PORTION OF THE SILT FENCE MAY BE PAINTED ORANGE AND CAUTION RIBBON MAY BE INSTALLED IN ACCORDANCE WITH THE DETAIL PROVIDED IN THE CONSTRUCTION SPECIFICATION. RIBBON MUST BE MAINTAINED AT ALL TIMES IF THIS ALTERNATIVE IS TO BE USED.

CONTRACTOR SHALL BE RESPONSIBLE FOR KEEPING EXISTING PAVED SURFACES CLEAN OF SEDIMENT BY STREET SWEEPING ROADWAYS WHEN A SIGNIFICANT ACCUMULATION OF SEDIMENT OCCURS ON THESE SURFACES. ANY SEDIMENT TRACKED OFF-SITE IS TO BE REMOVED WITHIN 24 HOURS. SWEEPING MUST ALSO OCCUR WHEN DIRECTED BY THE CITY.

THE CONTRACTOR IS TO PLACE A THREE FOOT WIDE STRIP OF SOD BEHIND THE CURB FOLLOWING BACKFILLING TO PREVENT EROSION IN THIS AREA.

CONTRACTOR TO PROVIDE DANDY BAG PROTECTION AT ALL CATCH BASIN INLETS (SEE DETAIL).

EROSION CONTROL BLANKET SHALL BE INSTALLED ON ALL SLOPES 3:1 OR STEEPER.

TEMPORARY AND PERMANENT SEDIMENTATION BASINS MUST BE DRAINED AND SEDIMENT REMOVED ONCE THE SEDIMENT COLLECTED REACHES ONE-THIRD THE STORAGE VOLUME WITHIN 72 HOURS, AS FIELD CONDITIONS ALLOW.

ALL SEDIMENT DEPOSITS WITHIN SURFACE WATERS MUST BE REMOVED AND RESTABILIZED WITHIN 7 DAYS OF DISCOVERY. THIS INCLUDES DELTAS AND STORM SEWER SEDIMENT DEPOSITS.

INFILTRATION/FILTRATION SYSTEMS SHOULD NOT BE EXCAVATED TO FINAL GRADE UNTIL THE CONTRIBUTING DRAINAGE AREA HAS BEEN FULLY STABILIZED.

DURING EXCAVATION, SEDIMENT AND EROSION CONTROL DEVICES SHOULD BE UTILIZED TO PREVENT SEDIMENTATION AND THE AREA MUST BE STAKED OFF AND MARKED SO THAT HEAVY CONSTRUCTION EQUIPMENT WILL NOT COMPACT THE SOIL.

ON-SITE TESTING MUST BE CONDUCTED TO VERIFY THAT A MINIMUM OF 3 FEET OF SEPARATION FROM BEDROCK OR SATURATED SOIL IS ACHIEVED.

ALL INFILTRATION AREAS MUST BE INSPECTED TO ENSURE THAT NO SEDIMENT FROM ONGOING CONSTRUCTION IS REACHING THE INFILTRATION AREA.

SEDIMENT CONTROL DEVICES MUST BE USED TO MINIMIZE SEDIMENT ENTERING SURFACE WATER, INCLUDING CURB AND GUTTER AND STORM SEWER INLETS.

IF THE DOWN GRADIENT TREATMENT SYSTEM IS OVER LOADED, THE SWPPP MUST BE AMENDED.

PERMIT REQUIRES THAT THERE BE NO UNBROKEN SLOPE LENGTH GREATER THAN 75' FOR SLOPES WITH A GRADE OF 3:1 OR STEEPER.

ALL DOWN GRADIENT PERIMETER SEDIMENT CONTROLS SHOULD BE IN PLACE BEFORE ANY UP GRADIENT DISTURBANCE BEGINS, AND MAINTAINED UNTIL FINAL STABILIZATION.

TIMING AND INSTALLATION OF SEDIMENT CONTROL DEVICES CAN BE ADJUSTED TO ACCOMMODATE SHORT TERM ACTIVITIES SUCH AS CLEARING AND GRUBBING.

ALL STORM DRAIN INLETS MUST BE PROTECTED WITH BMP'S

ROCK CONSTRUCTION ENTRANCES OR EQUIVALENT SYSTEM MUST BE USED TO MINIMIZE TRACKING FROM SITE.

DEWATERING ACTIVITIES THAT MAY HAVE SEDIMENT-LADEN DISCHARGE MUST DISCHARGE INTO A TEMPORARY OR PERMANENT SEDIMENTATION BASIN WHEN POSSIBLE. OTHERWISE IT MUST BE DISCHARGED THROUGH SOME FORM OF BMP.

ALL OUTFLOWS FROM BMP'S MUST HAVE APPROVED ENERGY DISSIPATION SUCH AS RIP RAP.

THE CONTRACTOR SHALL COMPLETELY REMOVE ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES UPON ESTABLISHMENT OF FINAL MEASURES AND SITE STABILIZATION. CONTRACTOR SHALL OVER EXCAVATE TEMPORARY SEDIMENT POND BOTTOM IF POOR SUBSOILS BECOME SATURATED AND REPLACE WITH COMPACTED FILL MATERIAL PER REQUIREMENTS OF GEOTECHNICAL REPORT.

INSPECTION AND RECORD RETENTION

THE SWPPP, ALL CHANGES TO IT, AND INSPECTIONS AND MAINTENANCE RECORDS MUST BE KEPT AT THE SITE DURING CONSTRUCTION BY THE PERMITTEE WHO HAS OPERATIONAL CONTROL OF THE PORTION OF THE SITE. ALL OWNERS MUST KEEP THE SWPPP ON FILE FOR THREE YEARS AFTER THE SUBMITTAL OF THE NOTICE OF TERMINATION, INCLUDING THE FOLLOWING INFORMATION:

1. ANY OTHER PERMITS REQUIRED FOR THE PROJECT.
2. RECORDS OF ALL INSPECTION AND MAINTENANCE CONDUCTED DURING CONSTRUCTION.
3. ALL PERMANENT OPERATION AND MAINTENANCE AGREEMENTS THAT HAVE BEEN IMPLEMENTED, INCLUDING ALL RIGHT OF WAY, CONTRACTS, COVENANTS, AND OTHER BINDING REQUIREMENTS REGARDING PERPETUAL MAINTENANCE.
4. ALL REQUIRED CALCULATIONS FOR DESIGN OF THE TEMPORARY AND PERMANENT STORM WATER MANAGEMENT SYSTEMS.

THE PERMITTEE MUST ROUTINELY INSPECT THE SITE ONCE EVERY 7 DAYS DURING ACTIVE CONSTRUCTION AND WITHIN 24 HOURS AFTER A RAINFALL EVENT GREATER THAN 0.5 INCHES IN 24 HOURS.

ALL INSPECTIONS AND MAINTENANCE CONDUCTED DURING CONSTRUCTION MUST BE RECORDED IN WRITING AND RETAINED WITH THE SWPPP.

IN AREAS OF PROJECT WHERE FINAL STABILIZATION IS COMPLETE, INSPECTIONS CAN BE REDUCED TO ONCE A MONTH.

INSPECTIONS CAN BE SUSPENDED DUE TO FROZEN GROUND CONDITIONS UNTIL FIRST RUNOFF OCCURS OR CONSTRUCTION ACTIVITIES RESUME.

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ISSUE RECORD/REVISION

PURPOSE	DATE

GARY NEW DULUTH COMMUNITY CENTER AND RECREATION AREA

SHEET KEY

SHEET TITLE
EROSION CONTROL NOTES

DATE 5/21/15
DRAWN BY: LWS
CHECKED BY: LWS
PROJECT NUMBER 13340
SHEET NUMBER EC1.0

NOTICE OF TERMINATION

PERMITTEE MUST ENSURE FINAL STABILIZATION OF THE SITE AND SUBMIT THE NOT WITHIN 30 DAYS OF FINAL STABILIZATION.
FINAL STABILIZATION CAN BE ACHIEVED IN THE FOLLOWING WAY:

1. ALL SOIL DISTURBING ACTIVITIES ARE COMPLETE AND A UNIFORM PERENNIAL VEGETATIVE COVER WITH A DENSITY OF 70% OVER THE ENTIRE PERVIOUS SURFACE HAS BEEN ACHIEVED INCLUDING:
   - STABILIZATION OF DITCHES AND SWALES.
   - REMOVAL OF ALL TEMPORARY SYNTHETIC & STRUCTURAL BMP'S.
   - REMOVAL OF SEDIMENTS FROM STORM WATER CONVEYANCES AND PERMANENT WATER QUALITY BASINS.

STORM WATER POLLUTION PREVENTION PLAN (SWPPP)
For Construction Activities
DATE: 5-12-15

1. BACK-OF-CURB DOWN GRADIENT EROSION CONTROL SHALL BE INSTALLED PRIOR TO BASEMENT/FOUNDATION EXCAVATION. (BACK-OF CURB DOWN GRADIENT EROSION CONTROL MAY BE REMOVED FOR A TIME PERIOD NO LONGER THAN 48 HOURS FOR BUILDING EXCAVATION AND FOR FINAL GRADE PRIOR TO SOD)

2. ROCK ENTRANCES SHALL BE INSTALLED PRIOR TO BASEMENT/FOUNDATION EXCAVATION

3. ALL STORM DRAIN INLETS THAT RECEIVE DISCHARGE FROM THE LOT UNDER CONSTRUCTION SHALL BE PROTECTED PRIOR TO BASEMENT/FOUNDATION EXCAVATION.

4. PERIMETER EROSION CONTROL SHALL BE INSTALLED PRIOR TO BASEMENT/FOUNDATION EXCAVATION IF ADJACENT LOTS, OPEN AREAS, WETLANDS, OR STORM PONDS ARE AT FINAL STABILIZATION.

5. A TRUCK MOUNTED CONCRETE WASHOUT IS REQUIRED AND SHALL MEET THE PROPER BMP EROSION CONTROL PROVISIONS.

6. STREETS SHALL BE SWEPT ONCE WEEKLY, EXCEPT DURING FROZEN GROUND CONDITIONS.

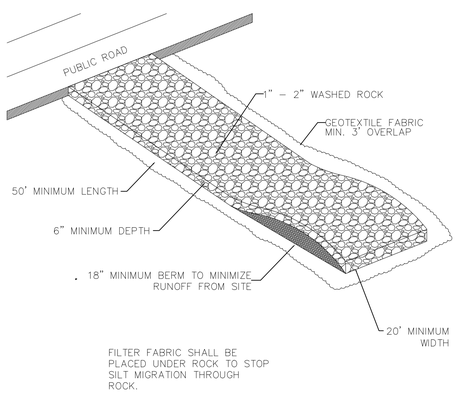
7. ROCK ENTRANCES SHALL BE INSTALLED FOR OFF STREET ACCESS TO VACANT LOTS FOR PURPOSES OF STORING MATERIALS, SETTING DUMPSTERS OR PARKING.

8. ALL BMPS SHALL BE MAINTAINED UNTIL FINAL STABILIZATION.

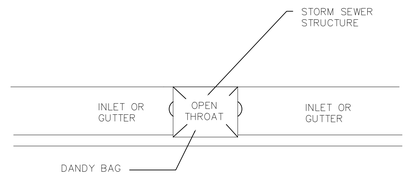
9. BMPS MAY NOT BE IN PLACE DUE TO FROZEN GROUND CONDITIONS, BUT SHALL BE INSTALLED AFTER SPRING THAW.

SEQUENCE OF CONSTRUCTION

1. CONTRACTOR TO VERIFY THAT ALL PERMITS HAVE BEEN OBTAINED.
2. CONTRACTOR TO SCHEDULE FIELD MEETING WITH OWNER
3. CONTRACTOR TO INSTALL ALL PERIMETER SEDIMENT CONTROL DEVICES, CONSTRUCTION ENTRANCES AND PROTECTIVE FENCING FOR TREES, DITCHES, EXISTING WATER BODIES AND AREAS TO REMAIN UNDISTURBED.
4. CONTRACTOR TO CONSTRUCT STORMWATER AND/OR TEMPORARY SEDIMENTATION BASINS.
5. CONTRACTOR TO CONTACT OWNER FOR APPROVAL OF SEDIMENT CONTROL DEVICES.
6. CONTRACTOR TO ROUGH GRADE SITE AND INSTALL UTILITIES.
7. CONTRACTOR TO INSTALL TEMPORARY EROSION CONTROL DEVICES AS NECESSARY. CONTRACTOR TO FILL TEMPORARY SEDIMENTATION BASINS, COMPACTING TO SPECIFIED DENSITIES. REMOVE ALL UNSUITABLE SEDIMENT PER RECOMMENDATION OF GEOTECHNICAL ENGINEER.
8. CONTRACTOR TO INSTALL SUBBASE AND BASE FOR PAVEMENT.
9. CONTRACTOR TO INSTALL BITUMINOUS SURFACE.
10. CONTRACTOR TO INSTALL EROSION CONTROL BLANKETS WITH PERMANENT SEED MIX.
11. CONTRACTOR TO REMOVE SEDIMENT CONTROL DEVICES WITHIN TWO WEEKS OF WITHIN TWO WEEKS OF FINAL STABILIZATION.
12. SUBMIT NOTICE OF TERMINATION WITHIN 30 DAYS OF FINAL STABILIZATION.



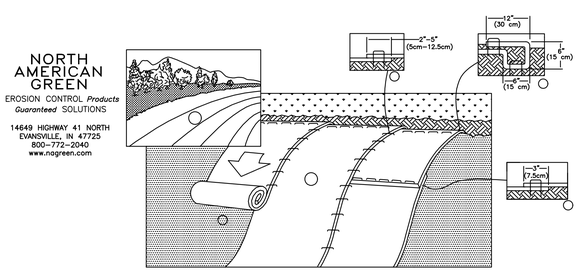
ROCK CONSTRUCTION ENTRANCE



TEMPORARY BARRIER USING DANDY BAGS TO PREVENT SEDIMENT-LADEN WATER FROM ENTERING THE STORM SEWER SYSTEM DURING CONSTRUCTION.

DANDY BAG PROTECTION

SLOPE INSTALLATION

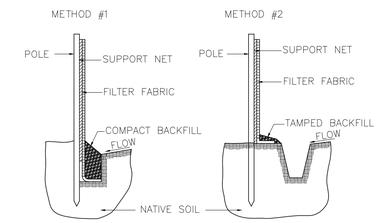


1. PREPARE SOIL BEFORE INSTALLING ROLLED EROSION CONTROL PRODUCTS (RECP's), INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED.
   NOTE: WHEN USING CELL-O-SEED DO NOT SEED PREPARED AREA. CELL-O-SEED MUST BE INSTALLED WITH PAPER SIDE DOWN.
2. BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE RECP's IN A 6" (15 CM) DEEP X 6" (15 CM) WIDE TRENCH WITH APPROXIMATELY 12" (30cm) OF RECP's EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR THE RECP's WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" (30 CM) APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" (30 CM) PORTION OF RECP's BACK OVER SEED AND COMPACTED SOIL. SECURE RECP's OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" (30 CM) APART ACROSS THE WIDTH OF THE RECP's.
3. ROLL THE RECP's (A.) DOWN OR (B.) HORIZONTALLY ACROSS THE SLOPE. RECP's WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL RECP's MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS SHOWN IN THE STAPLE PATTERN GUIDE. WHEN USING THE DOT SYSTEM™ STAPLES/STAKES SHOULD BE PLACED THROUGH EACH OF THE COLORED DOTS CORRESPONDING TO THE APPROPRIATE STAPLE PATTERN.
4. THE EDGES OF PARALLEL RECP's MUST BE STAPLED WITH APPROXIMATELY 2" - 5" (5 CM - 12.5 CM) OVERLAP DEPENDING ON RECP's TYPE.
5. CONSECUTIVE RECP's SPLICED DOWN THE SLOPE MUST BE PLACED END OVER END (SHINGLE STYLE) WITH AN APPROXIMATE 3" (7.5 CM) OVERLAP. STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" (30 CM) APART ACROSS ENTIRE RECP's WIDTH.
   NOTE:
   *IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6" (15 CM) MAY BE NECESSARY TO PROPERLY SECURE THE RECP's.

SLOPE PROTECTION

METHOD #1 (PREFERRED)

1. PLACE THE SEDIMENTATION CONTROL FABRIC SIDE OF THE FENCE IN THE DIRECTION OF THE ANTICIPATED SEDIMENT FLOW (NET SIDE OF THE SYSTEM AWAY FROM THE FLOW), AND POSITION THE POLES AGAINST THE BACK OF THE TRENCH.
2. USE A #5 SLEDGE HAMMER OR SIMILAR DEVICE TO DRIVE THE POLES INTO THE GROUND UNTIL THE BOTTOM OF THE INDUSTRIAL NETTING IS APPROXIMATELY 2" BELOW GROUND LEVEL (SEE DIAGRAM).
3. LAY THE BOTTOM 6" OF SEDIMENTATION CONTROL FABRIC IN THE TRENCH.
4. BACKFILL THE TRENCH WITH NATIVE SOIL AND COMPACT.

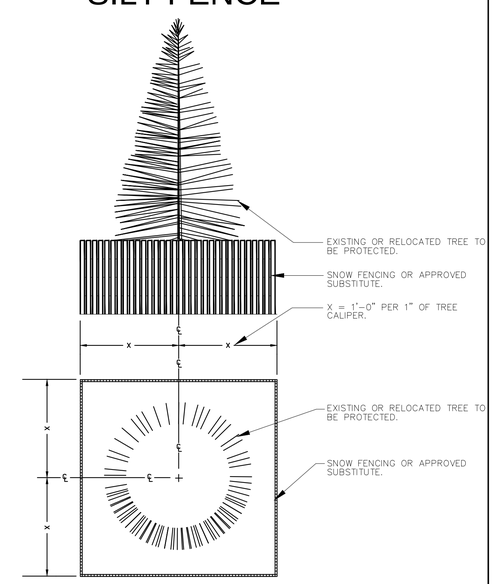


TOE-IN TRENCH FOR ENVIROFENCE

METHOD #2

1. LAY THE BOTTOM 6" OF SEDIMENTATION CONTROL FABRIC NETTING ON THE NATIVE SOIL, ONE TO TWO FEET BEHIND THE TRENCH.
2. PLACE BACKFILL ON THE FABRIC AS SHOWN (SEE FIGURE), AND TAMP FIRM WITH FOOT TO PREVENT LEAKAGE UNDER THE ENVIROFENCE UNIT.

SILT FENCE



TREE PROTECTION

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ISSUE RECORD/REVISION

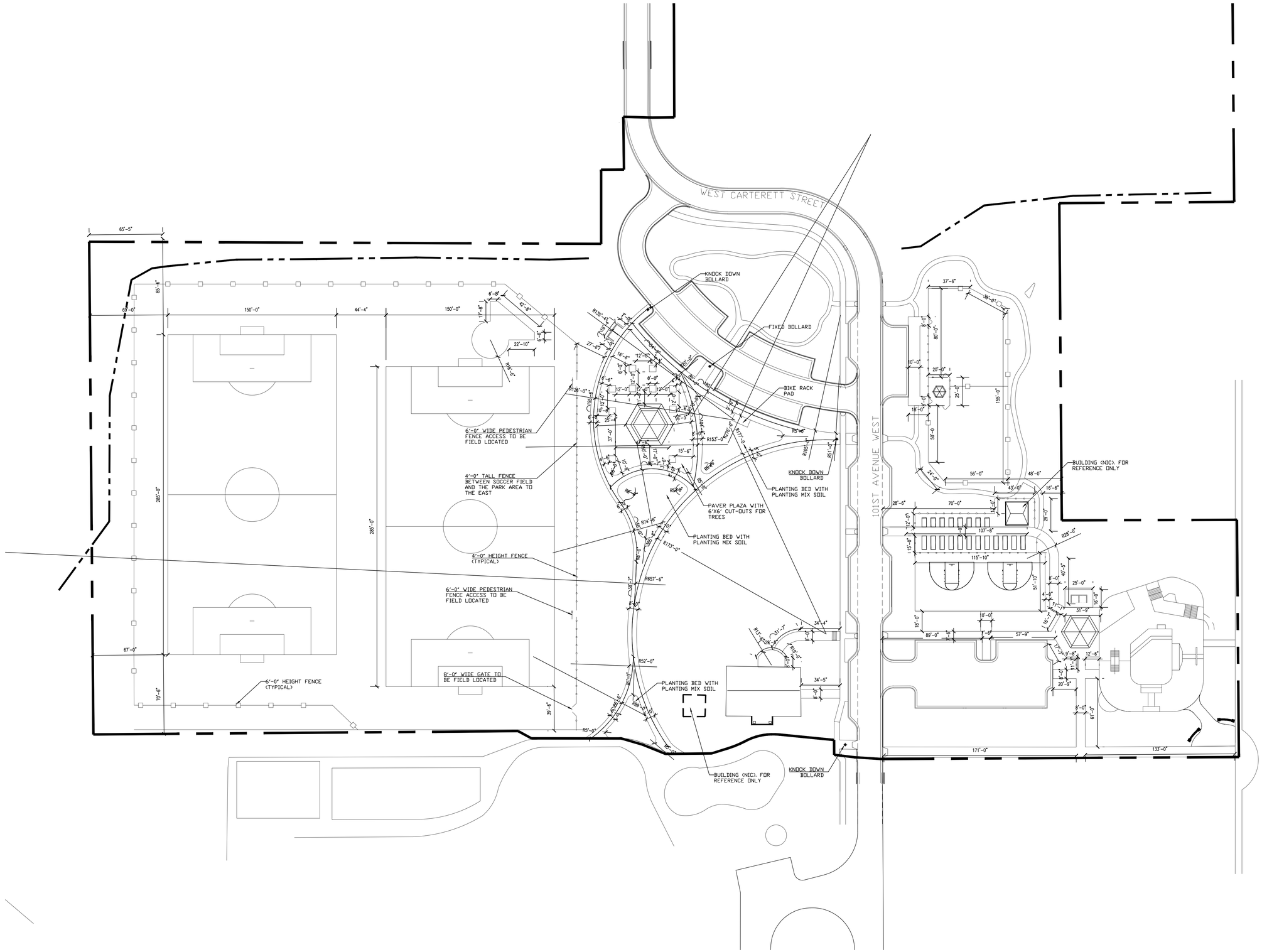
PURPOSE	DATE

GARY NEW DULUTH COMMUNITY CENTER AND RECREATION AREA

SHEET KEY

SHEET TITLE
EROSION CONTROL NOTES AND DETAILS

DATE: 5/21/15
DRAWN BY: LWS
CHECKED BY: LWS
PROJECT NUMBER: 13340
SHEET NUMBER: ECI.1



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Issue Record/Revision

Purpose	Date

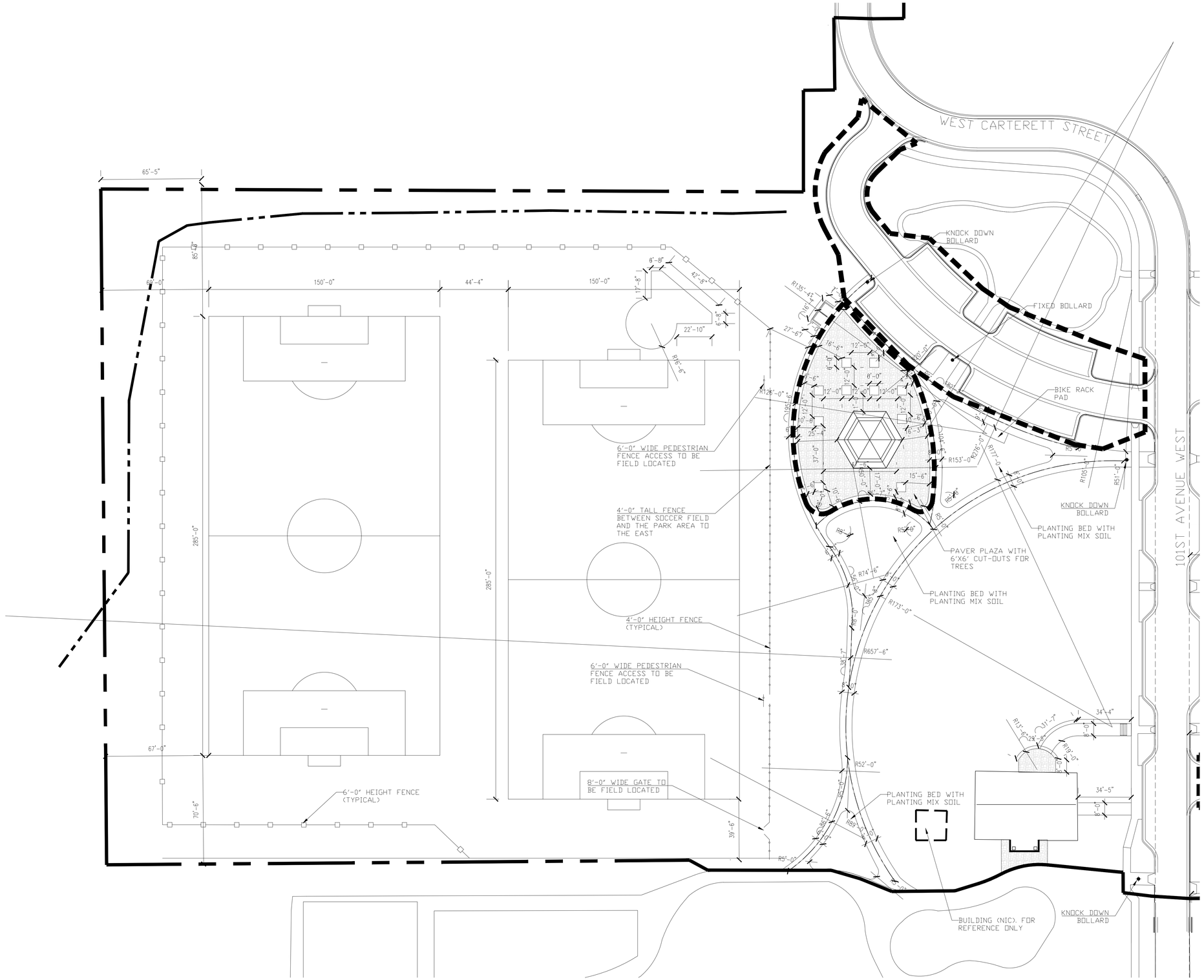
GARY NEW DULUTH COMMUNITY CENTER AND RECREATION AREA

0 40' 80'
ONE INCH

Sheet Key

Sheet Title
OVERALL LAYOUT PLAN

Date: 5/21/15
Drawn By: LWS
Checked By: LWS
Project Number 13340
Sheet Number L1.0



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Issue Record/Revision

Purpose	Date

GARY NEW DULUTH COMMUNITY CENTER AND RECREATION AREA

Sheet Key

Sheet Title
PHASE I LAYOUT PLAN

Date: 5/21/15

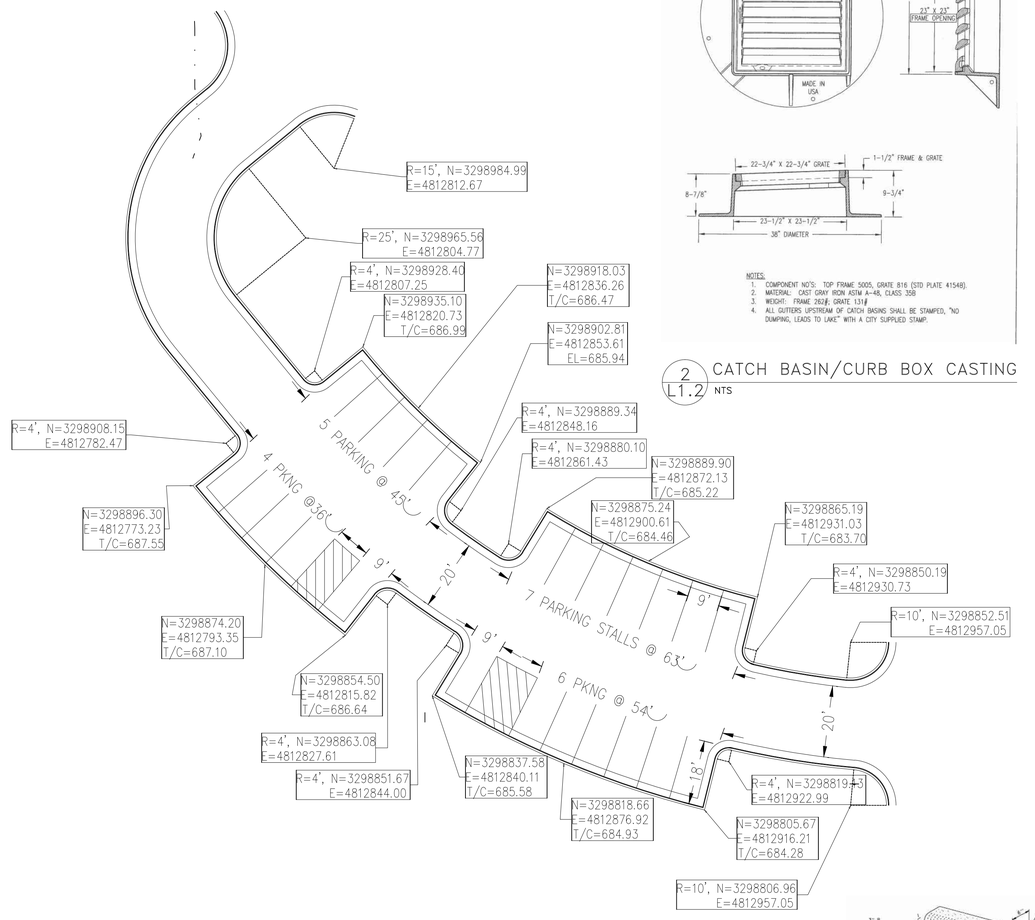
Drawn By: LWS

Checked By: LWS

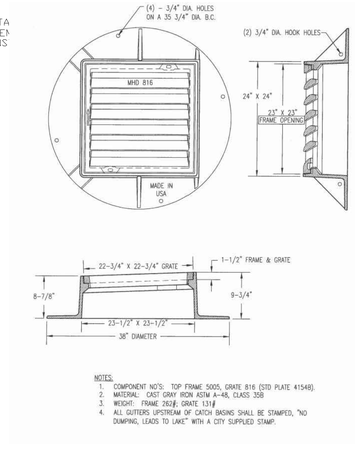
Project Number
13340

Sheet Number
L1.1

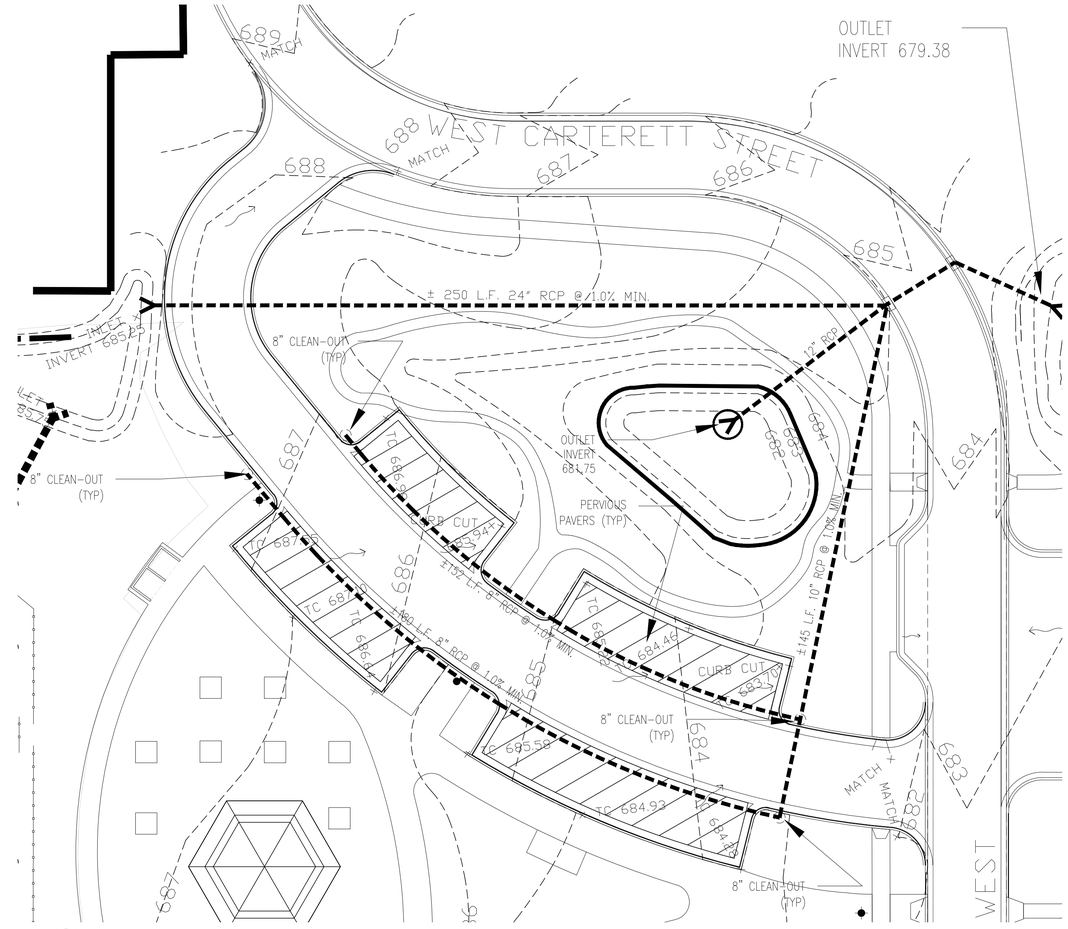
NOTE: CATCH BASIN INSTA
MEET ALL REQUIREM
CITY REQUIRED INS
AND INSPECTION



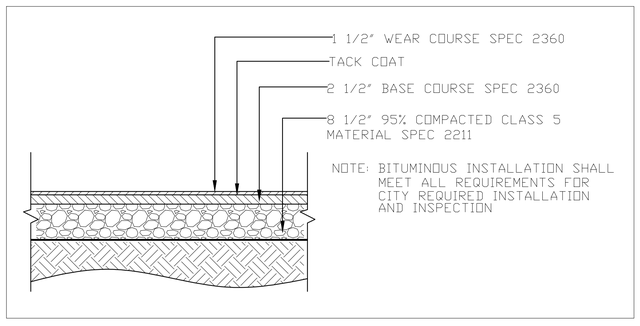
1 L1.2 NORTH PARKING LAYOUT
1"=10'-0"



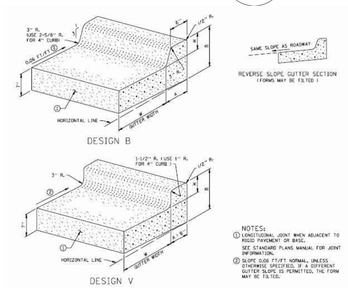
2 L1.2 CATCH BASIN/CURB BOX CASTING
NTS



3 L1.2 NORTH PARKING GRADING
1"=20'-0"



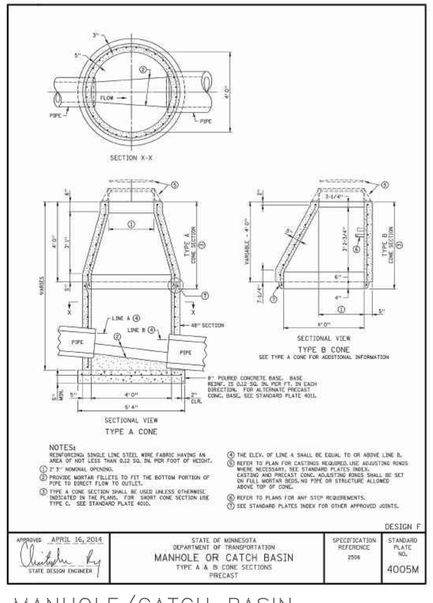
4 L1.2 BITUMINOUS PARKING SURFACE
NTS



DESIGN B			W = 12"			W = 18"			W = 24"			W = 30"			W = 36"		
DIMENSIONS			DESIGN NO.	CONCRETE		DESIGN NO.	CONCRETE		DESIGN NO.	CONCRETE		DESIGN NO.	CONCRETE		DESIGN NO.	CONCRETE	
H	A	B		CU. YDS. PER LIN. FT.	LIN. FT. PER CU. YD.		CU. YDS. PER LIN. FT.	LIN. FT. PER CU. YD.		CU. YDS. PER LIN. FT.	LIN. FT. PER CU. YD.		CU. YDS. PER LIN. FT.	LIN. FT. PER CU. YD.		CU. YDS. PER LIN. FT.	LIN. FT. PER CU. YD.
4	7-3/8"	11-1/2"	B412	0.0421	23.8	B418	0.0529	18.9	~~B424~~	~~0.0637~~	~~15.7~~	B430	0.0745	13.4	B436	0.0853	11.7
6	8"	13-1/2"	B612	0.0474	21.1	B618	0.0582	17.2	B624	0.0690	14.5	B630	0.0798	12.5	B636	0.0906	11.0
8	8-5/8"	15-1/2"	B812	0.0529	18.9	B818	0.0637	15.7	~~B824~~	~~0.0745~~	~~13.4~~	B830	0.0853	11.7	B836	0.0962	10.4
9	9"	16-5/8"	B912	0.0553	17.9	B918	0.0667	15.0	B924	0.0775	12.9	B930	0.0883	11.3	B936	0.0991	10.1
10	9-3/8"	17-5/8"	B1012	0.0589	17.0	B1018	0.0697	14.4	B1024	0.0805	12.4	B1030	0.0913	11.0	B1036	0.1021	9.8

DESIGN V			W = 12"			W = 18"			W = 24"			W = 30"			W = 36"		
DIMENSIONS			DESIGN NO.	CONCRETE		DESIGN NO.	CONCRETE		DESIGN NO.	CONCRETE		DESIGN NO.	CONCRETE		DESIGN NO.	CONCRETE	
H	A	B		CU. YDS. PER LIN. FT.	LIN. FT. PER CU. YD.		CU. YDS. PER LIN. FT.	LIN. FT. PER CU. YD.		CU. YDS. PER LIN. FT.	LIN. FT. PER CU. YD.		CU. YDS. PER LIN. FT.	LIN. FT. PER CU. YD.		CU. YDS. PER LIN. FT.	LIN. FT. PER CU. YD.
4	6"	11-3/8"	V412	0.0396	25.3	V418	0.0504	19.9	V424	0.0612	16.4	V430	0.0720	13.9	V436	0.0828	12.1
6	6"	13-3/8"	V612	0.0426	23.5	V618	0.0534	18.7	V624	0.0642	15.6	V630	0.0750	13.4	V636	0.0858	11.7
8	6"	15-3/8"	V812	0.0457	21.9	V818	0.0565	17.7	V824	0.0673	14.9	V830	0.0781	12.8	V836	0.0889	11.3
9	6"	16-3/8"	V912	0.0472	21.2	V918	0.0580	17.2	V924	0.0688	14.5	V930	0.0796	12.6	V936	0.0904	11.1
10	6"	17-3/8"	V1012	0.0487	20.5	V1018	0.0595	16.8	V1024	0.0703	14.2	V1030	0.0811	12.4	V1036	0.0919	10.9

5 L1.2 CONCRETE CURB AND GUTTER
NTS



6 L1.2 MANHOLE/CATCH BASIN
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ISSUE RECORD/REVISION

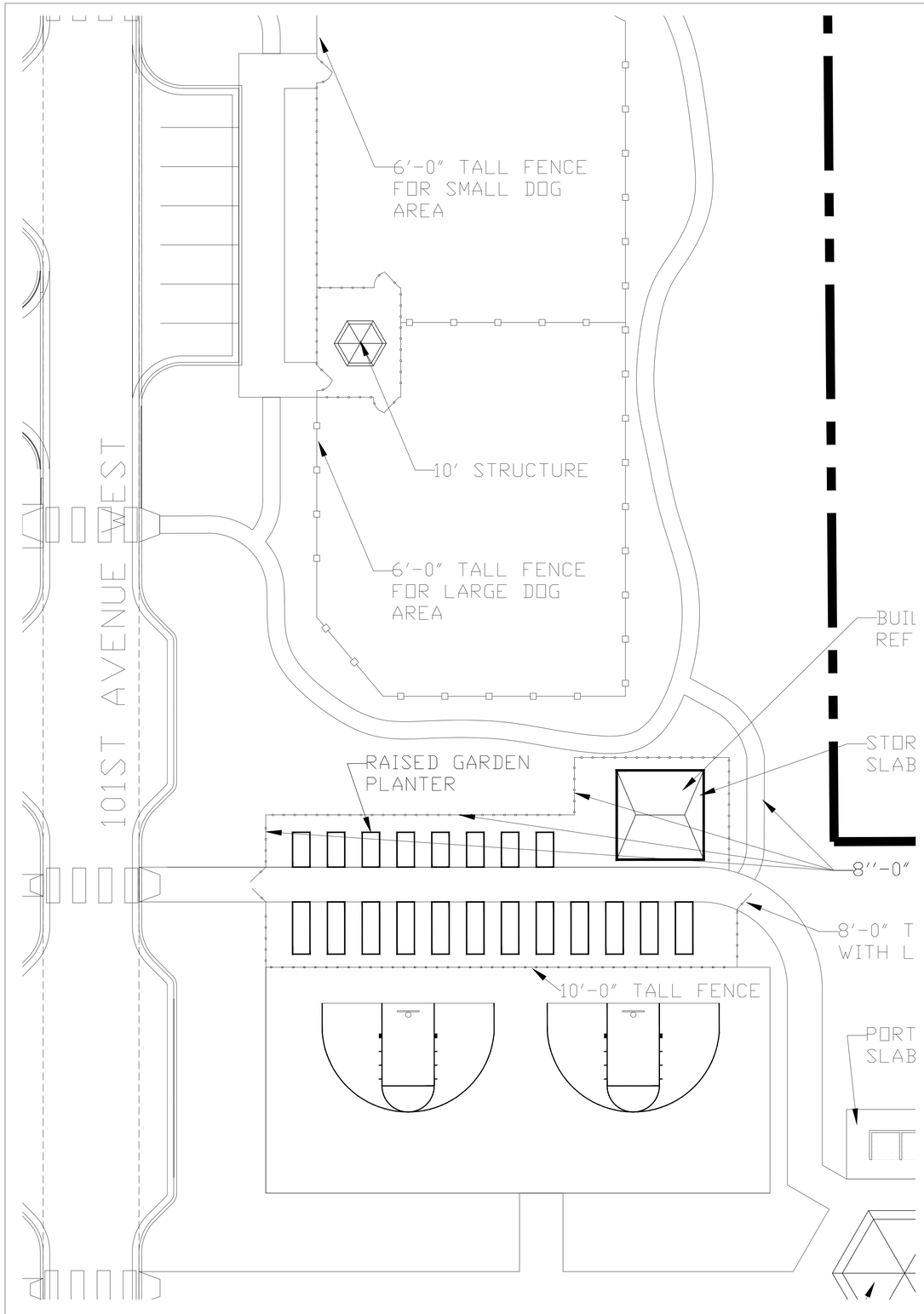
PURPOSE	DATE

GARY NEW DULUTH COMMUNITY CENTER AND RECREATION AREA

SHEET KEY

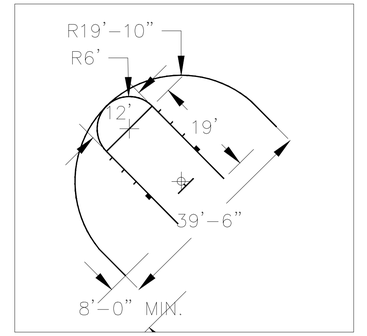
SHEET TITLE
NORTH PARKING LOT LAYOUT PLAN

DATE: 5/21/15
DRAWN BY: LWS
CHECKED BY: LWS
PROJECT NUMBER: 13340
SHEET NUMBER: L1.2



1 L1.3 EAST AREA DETAIL PLAN

SCALE: 1"=20'-0"



* OTHER PAINTED ELEMENTS BY GND CLUB

2 L1.3 ADD ALT #3 HALF COURT LAYOUT

NTS

POLIGON - OXFORD GX02-12
(OR PRE APPROVED SUBSTITUTE)

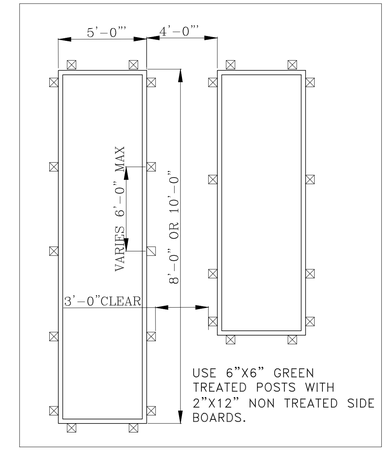
ROOF DIMENSION:
10FT WIDE FROM ROOF POINT TO POINT

PRIME ROOF MATERIAL:
PRE CUT 24GA KYNAR 500 COATED STEEL CORRUGATED PANELS WITH RIBS 12" O.C.

ROOF PITCH:
STANDARD ROOF PITCH IS 8:12

BASE CONNECTION:
SURFACE MOUNT WITH BASE COVER

FOOTING DESIGN TO BE PREPARED AND STAMPED BY ENGINEER



3 L1.3 (NIC) RAISED GARDEN PLANTER

NTS

POLIGON - OXFORD GX02-24
(OR PRE APPROVED SUBSTITUTE)

ROOF DIMENSION:
24FT WIDE FROM ROOF POINT TO POINT

PRIME ROOF MATERIAL:
PRE CUT 24GA KYNAR 500 COATED STEEL CORRUGATED PANELS WITH RIBS 12" O.C.

ROOF PITCH:
STANDARD ROOF PITCH IS 8:12
BASE CONNECTION:
SURFACE MOUNT WITH BASE COVER

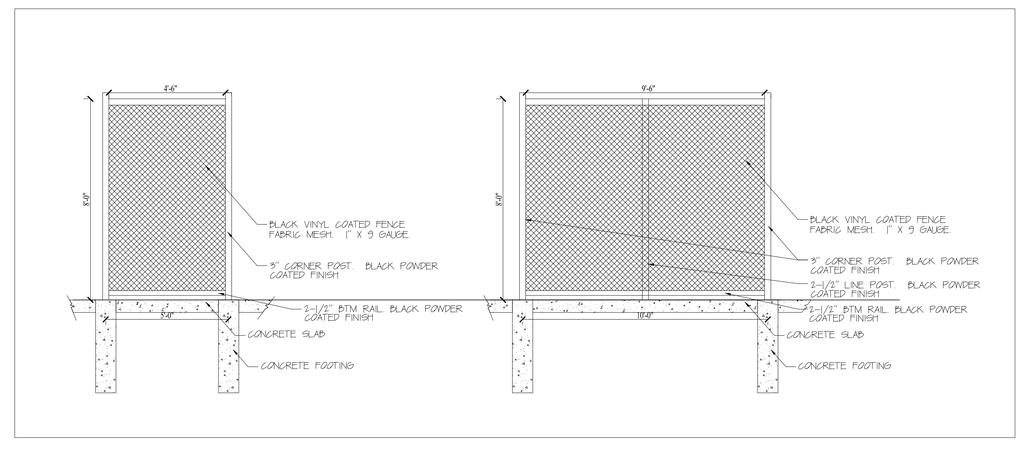
FOOTING DESIGN TO BE PREPARED AND STAMPED BY ENGINEER

4 L1.3 ADD ALT #6 SHELTER - DOG PARK

NTS

5 L1.3 ADD ALT #5 SHELTER - SPORT COURT/SKATE PARK

NTS



6 L1.3 PORTABLE TOILET ENCLOSURE

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ISSUE RECORD/REVISION

PURPOSE	DATE

GARY NEW DULUTH COMMUNITY CENTER AND RECREATION AREA

0 20' 40'
ONE INCH

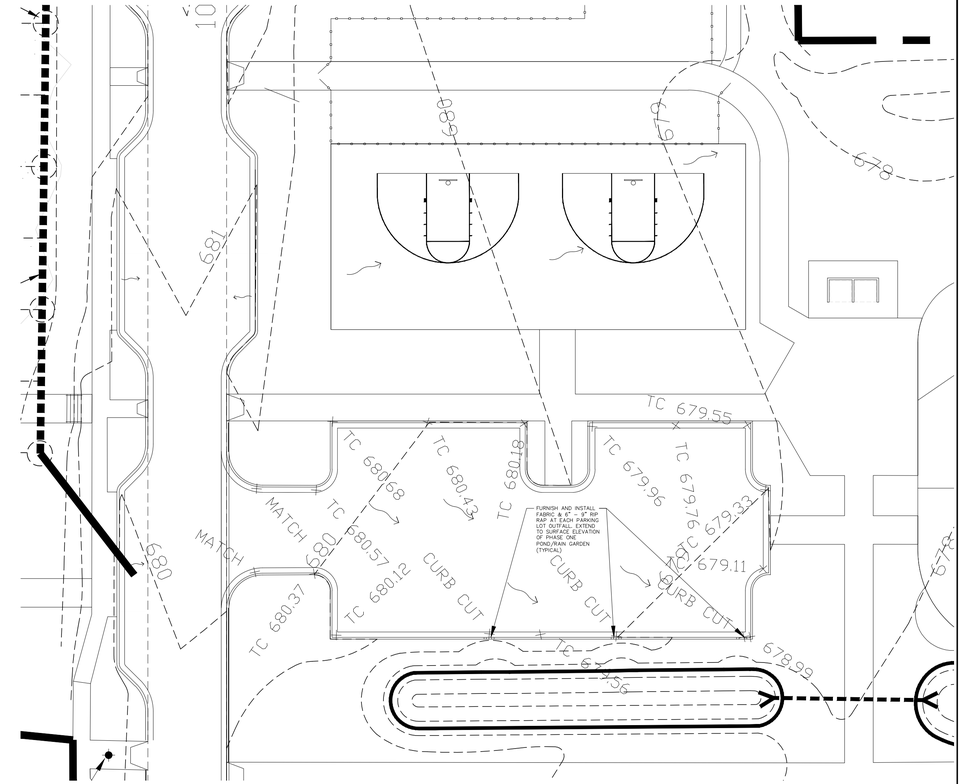
SHEET KEY

SHEET TITLE
EAST AREA DETAILS PLAN

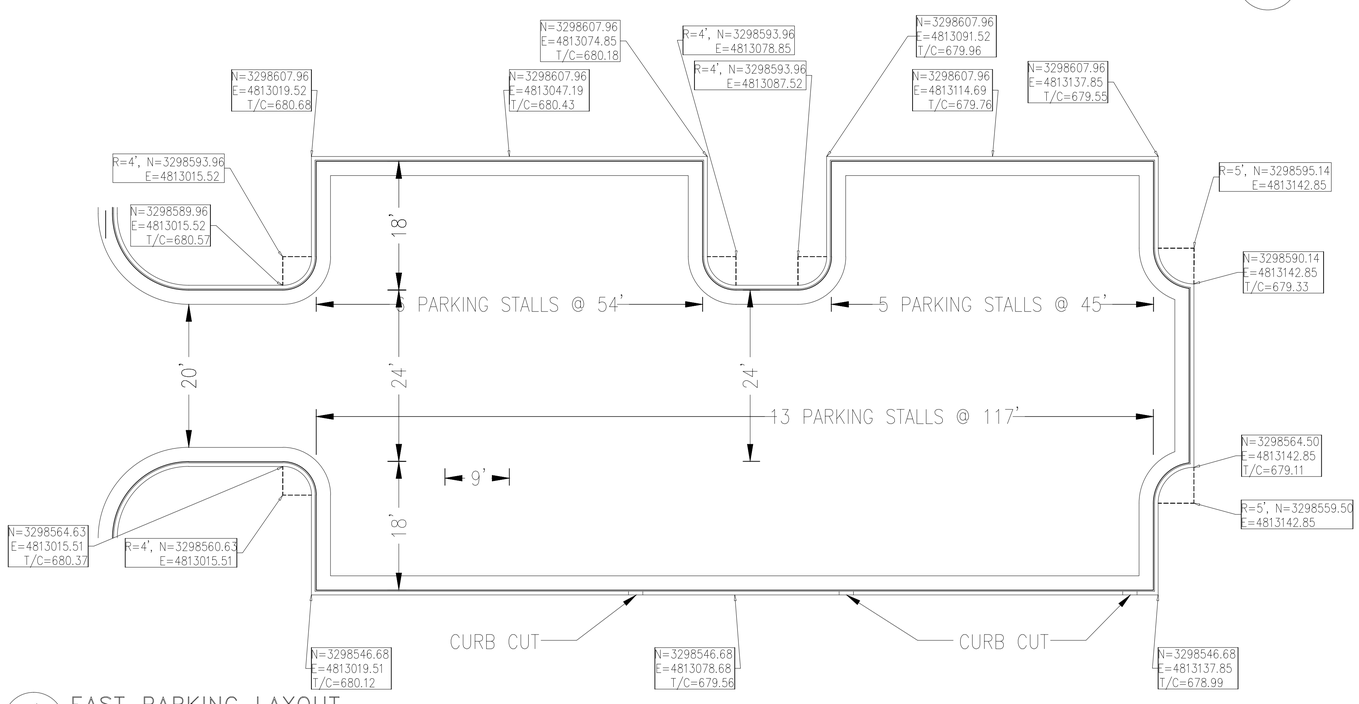
DATE: 5/21/15
DRAWN BY: LWS
CHECKED BY: LWS
PROJECT NUMBER 13340
SHEET NUMBER L1.3

SITE CONSTRUCTION NOTES:

1. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. CONTRACTOR AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGE WHICH MIGHT BE CAUSED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UTILITIES.
2. GENERAL CONTRACTOR IS RESPONSIBLE FOR IMPLEMENTATION OF BEST MANAGEMENT PRACTICES (BMP'S) AND COMPLIANCE WITH ALL STATE OF MINNESOTA AND CITY SEDIMENT CONTROL REQUIREMENTS.
3. PERIMETER SEDIMENT BMP'S SHALL BE IMPLEMENTED PRIOR TO THE START OF CONSTRUCTION ACTIVITY. STORM INLET PROTECTION SHALL BE MAINTAINED ON ALL STORM DRAINAGE STRUCTURES.
4. ALL EROSION CONTROL AND SEDIMENT BMP'S SHALL REMAIN IN PLACE AND BE MAINTAINED AS OPERATIONAL UNTIL PERMANENT VEGETATIVE COVER IS ESTABLISHED AND ALL PAVING IS COMPLETE. CONTRACTOR TO REMOVE ALL EROSION CONTROL PROTECTION ITEMS (SILT FENCE, HAY BALES, ETC.) FROM SITE AT THE COMPLETION OF THE PROJECT.
5. ALL HORIZONTAL AND VERTICAL CONTROL AND LAYOUT TO BE ESTABLISHED AND MAINTAINED BY THE GENERAL CONTRACTOR UNDER THIS CONTRACT.
6. ALL GRADES AND ELEVATIONS SHOWN ARE FINISHED GRADES AND ELEVATIONS.
7. RESTORE ALL AREAS DISTURBED BY CONSTRUCTION WITH TOPSOIL AND SOD AS SPECIFIED AND INDICATED ON PLANS.
8. ALL CONCRETE TO BE 4000 PSI CONCRETE WITH FIBER MESH REINFORCEMENT.
9. ALL CONSTRUCTION TO CONFORM WITH CURRENT ADA, IBC, AND LOCAL BUILDING CODES
10. CONTRACTOR TO COMPLY WITH ALL MANUFACTURER'S CONSTRUCTION STANDARDS/RECOMMENDATIONS FOR PLAYGROUND INSTALLATION.
11. INSTALL PLAY EQUIPMENT PER MANUFACTURERS SPECIFICATIONS
12. COORDINATE DRAIN LOCATIONS WITH PLAY STRUCTURE POST LOCATIONS
    ADJUST DRAINTILE WHERE NEEDED, MAINTAIN SLOPE AS SHOWN ON SITE/GRADING PLANS.
13. NOTIFY LANDSCAPE ARCHITECT IN DISCREPANCIES FROM EXISTING CONDITIONS
    OCCUR.



2 L1.4 EAST PARKING GRADING
1"=20'-0"



1 L1.4 EAST PARKING LAYOUT
1"=10'-0"

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ISSUE RECORD/REVISION

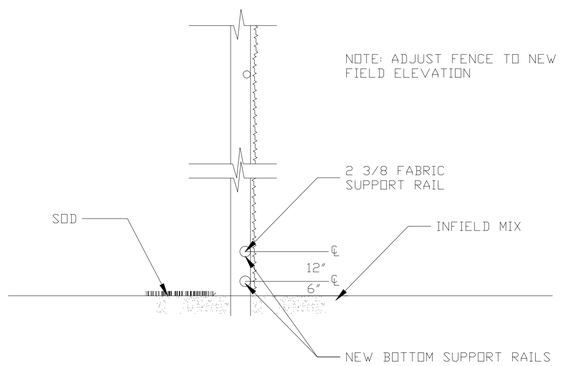
PURPOSE	DATE

GARY NEW DULUTH COMMUNITY CENTER AND RECREATION AREA

SHEET KEY

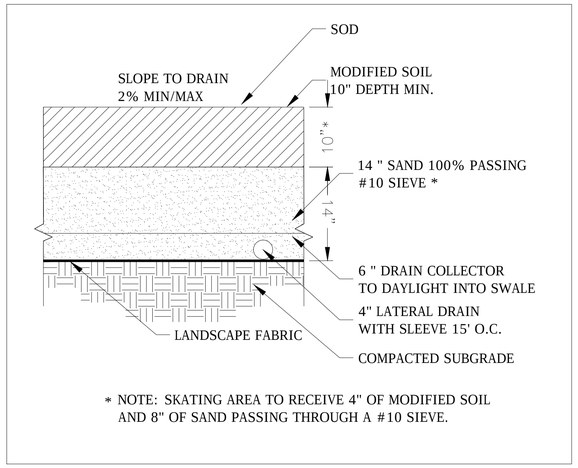
SHEET TITLE
EAST PARKING/WALK LAYOUT PLAN

DATE: 5/21/15
DRAWN BY: LWS
CHECKED BY: LWS
PROJECT NUMBER: 13340
SHEET NUMBER: L1.4



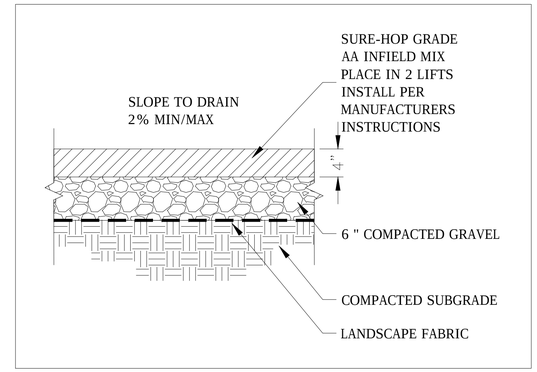
1 L1.5 BACKSTOP SECTION DETAIL (PROTECT EXISTING)

SCALE: 1/2" = 1'0"



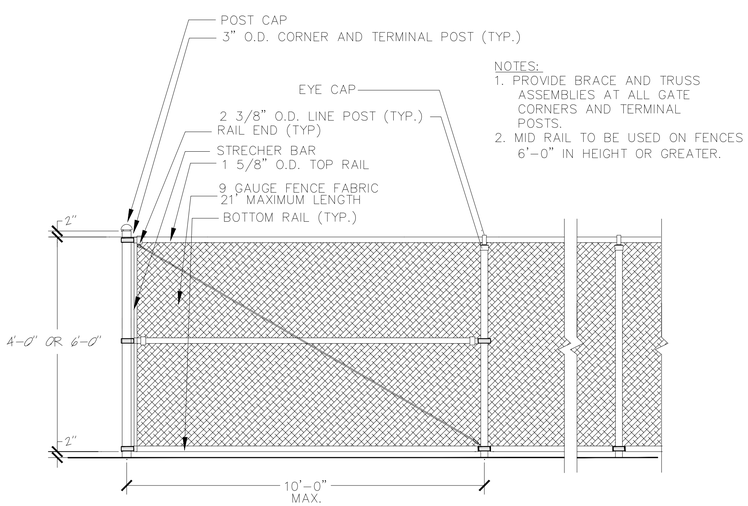
2 L1.5 FIELD SECTION

SCALE: NTS



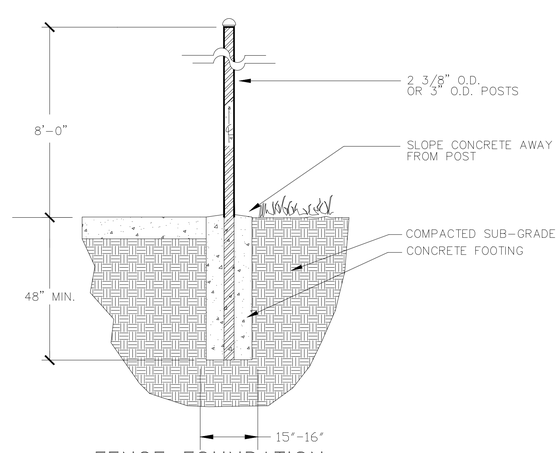
3 L1.5 INFIELD SECTION

SCALE: NTS



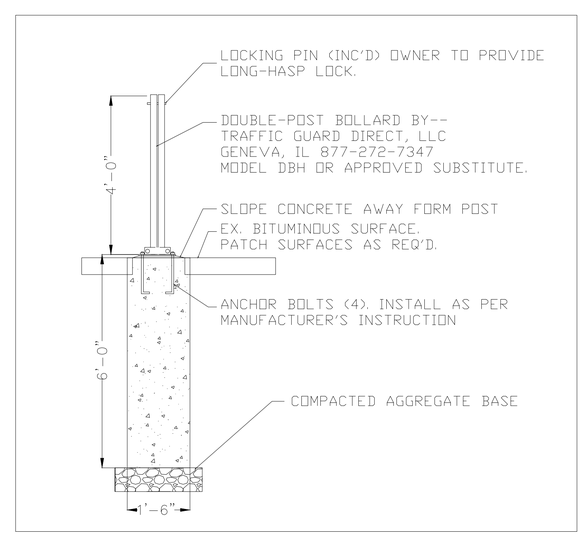
4 L1.5 STANDARD CHAIN LINK (BY OTHERS – FOR COORDINATION PURPOSES)

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



5 L1.5 FENCE FOUNDATION FOR CORNERS & DOORS (BY OTHERS – FOR COORDINATION PURPOSES)

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



6 L1.5 KNOCK DOWN BOLLARD

NTS

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ISSUE RECORD/REVISION

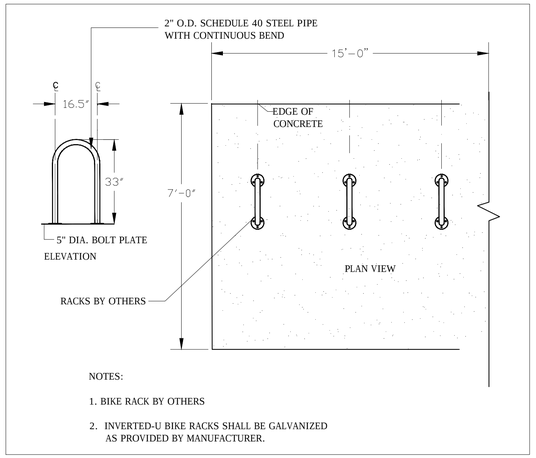
PURPOSE	DATE

GARY NEW DULUTH COMMUNITY CENTER AND RECREATION AREA

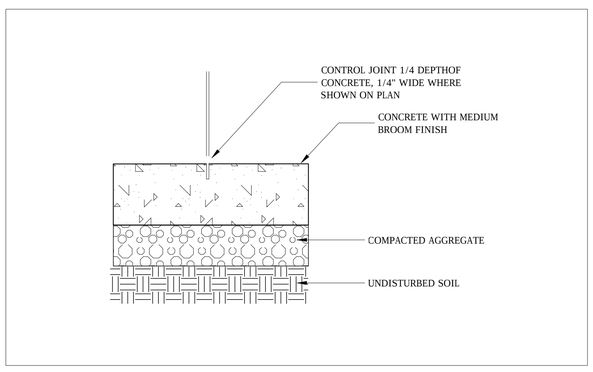
SHEET KEY

SHEET TITLE
SPORTS FIELD DETAILS

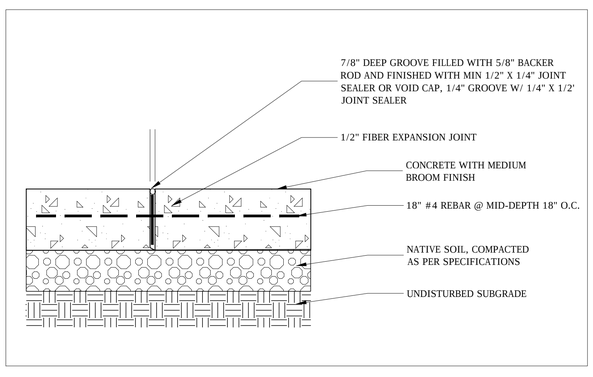
DATE: 5/21/15
DRAWN BY: LWS
CHECKED BY: LWS
PROJECT NUMBER: 13340
SHEET NUMBER: L1.5



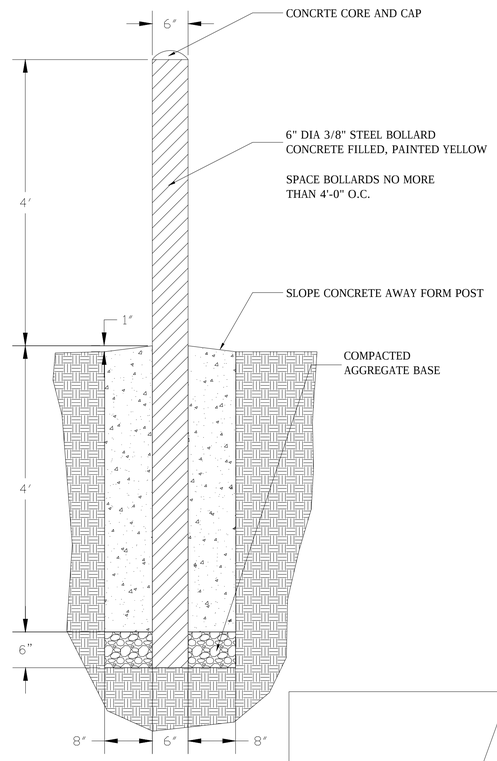
1 L1.6 BIKE RACK PAD
NTS



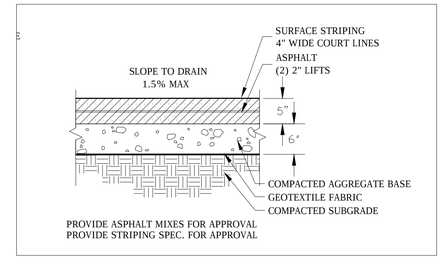
2 L1.6 CONTROL JOINT DETAIL TYP.
NTS



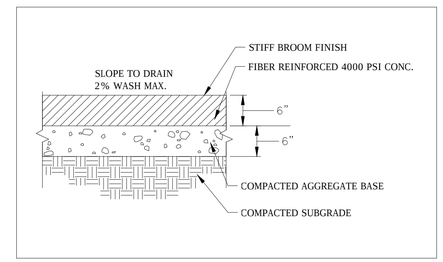
3 L1.6 EXPANSION JOINT DETAIL TYP.
NTS



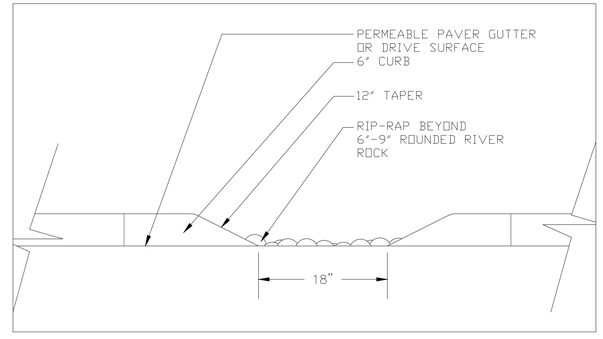
4 L1.6 FIXED BOLLARD
SCALE: 1"=1'



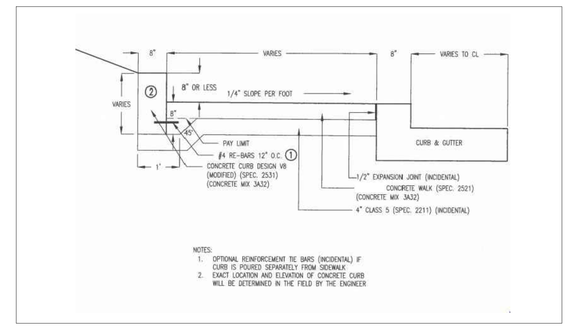
5 L1.6 ADD ALT #3
ASPHALT SPORT COURT
SCALE: 1"=1'



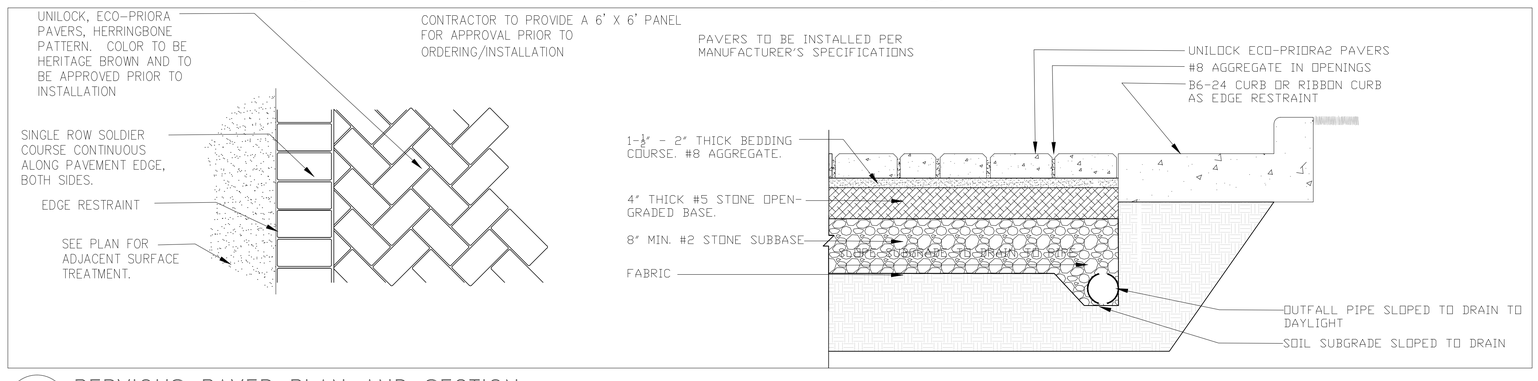
6 L1.6 CONCRETE SIDEWALK & BIKE PAD
NTS



7 L1.6 CONCRETE CURB CUT
NTS



8 L1.6 CONCRETE WALK WITH CONCRETE
CURB DESIGN V8
NTS



9 L1.6 PERVIOUS PAVER PLAN AND SECTION
NTS

SITE CONSTRUCTION NOTES:

1) EROSION CONTROL NETTING WILL BE USED ON ALL SLOPES GREATER THAN 3:1
2) LANDSCAPE ARCHITECT APPROVED TOPSOIL TO BE STOCKPILED AND RE-USED.
3) CONTRACTOR IS RESPONSIBLE FOR IMPLEMENTATION OF BEST MANAGEMENT PRACTICES (BMP'S) AND COMPLIANCE WITH ALL STATE OF MINNESOTA AND COOK COUNTY SEDIMENT CONTROL REQUIREMENTS.
4) PERIMETER SEDIMENT BMP'S SHALL BE IMPLEMENTED PRIOR TO THE START OF CONSTRUCTION ACTIVITY. STORM INLET PROTECTION SHALL BE MAINTAINED ON ALL STORM DRAINAGE STRUCTURES.
5) ALL EROSION CONTROL AND SEDIMENT BMP'S SHALL REMAIN IN PLACE AND BE MAINTAINED AS OPERATIONAL UNTIL PERMANENT VEGETATIVE COVER IS ESTABLISHED AND ALL PAVING IS COMPLETE. CONTRACTOR TO REMOVE ALL EROSION CONTROL PROTECTION ITEMS (SILT FENCE, HAY BALES, ETC
6) ALL HORIZONTAL AND VERTICAL CONTROL AND LAYOUT TO BE ESTABLISHED AND MAINTAINED BY THE GENERAL CONTRACTOR UNDER THIS CONTRACT.
7) ALL GRADES AND ELEVATIONS SHOWN ARE FINISHED GRADES AND ELEVATIONS.
8) ALL GRADES SHALL BE SLOPED TO DRAIN AWAY FROM BUILDINGS AT 2% MINIMUM SLOPE.
9) CONTRACTOR IS RESPONSIBLE FOR ALL PERMITS.
10) MAINTAIN A MINIMUM 1% SLOPE ON ALL HARD SURFACES.
11) NO SIDEWALKS TO EXCEED 5.0% RUNNING SLOPE AND 2.0% CROSS SLOPE, EXCEPT WHERE NOTED.
12) REPAIR AND REPLACE ALL BROKEN SIDEWALK/CURB PER PLAN DETAILS

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ISSUE RECORD/REVISION

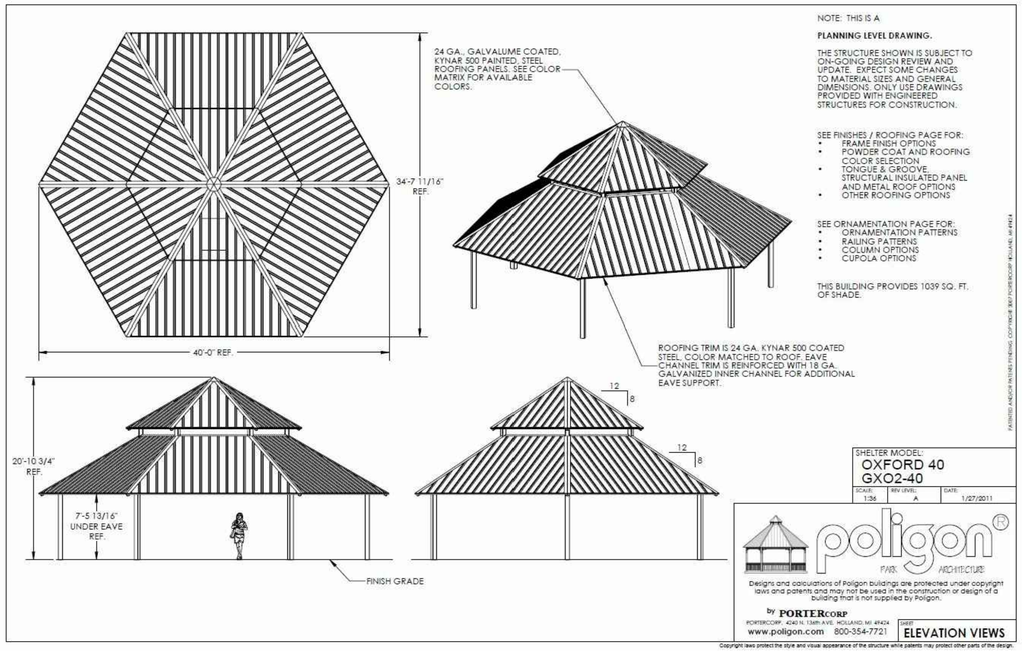
PURPOSE	DATE

GARY NEW DULUTH COMMUNITY CENTER AND RECREATION AREA

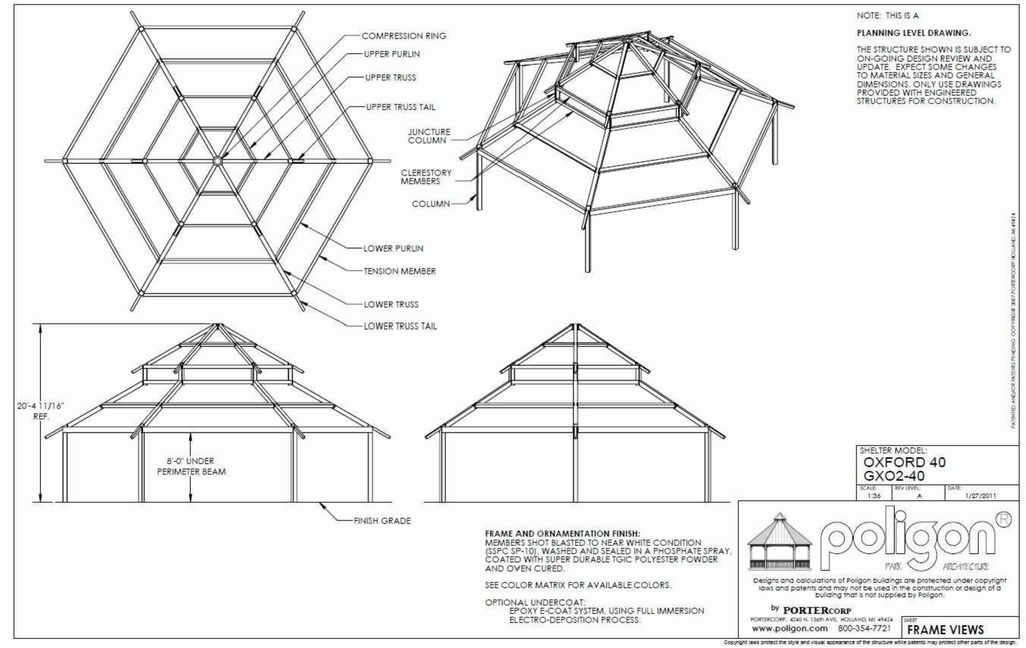
SHEET KEY

SHEET TITLE
OVERALL PROJECT DETAILS

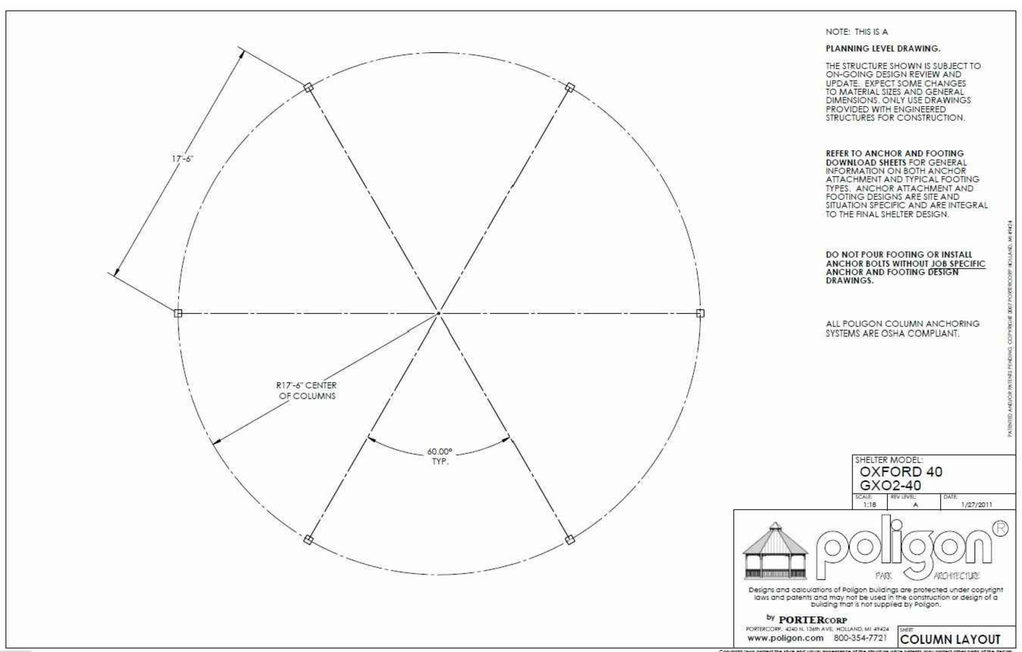
DATE: 5/21/15
DRAWN BY: LWS
CHECKED BY: LWS
PROJECT NUMBER: 13340
SHEET NUMBER: L1.6



1 L1.7 ELEVATION VIEWS – STRUCTURE DESIGN
NTS



2 L1.7 FRAME VIEWS – STRUCTURE DESIGN
NTS



3 L1.7 COLUMN LAYOUT – STRUCTURE DESIGN
NTS

NOTE: CONTRACTOR IS RESPONSIBLE FOR PROVIDING SHOP DRAWINGS TO LANDSCAPE ARCHITECT FOR REVIEW AND APPROVAL PRIOR TO ORDERING. THE CONTRACTOR/ SUPPLIER IS ALSO RESPONSIBLE FOR OBTAINING A STRUCTURAL ENGINEER STAMP FOR THE SPECIFIED PRODUCT.

Refer to www.poligon.com download area for:

- FOOTING AND ANCHOR INFORMATION
- COLUMN STYLE OPTIONS
- CUPOLA OPTIONS
- ORNAMENTATION STYLE OPTIONS
- INTEGRATED BENCH OPTIONS
- MISCELLANEOUS OPTIONS
- COLOR CHARTS

PORTERCORP MANUFACTURES AND DELIVERS PRODUCT IN STRICT COMPLIANCE TO GOVERNING BUILDING CODES.

AVAILABLE THROUGH:

NORTHLAND RECREATION
WWW.NORTHLANDREC.COM
PHONE: 651-815-4097
CONTACT: BILL JOHNSON

NOTE: SUBSTITUTES MUST BE OF EQUAL DESIGN AND QUALITY AS THE SHOWN PRODUCT. PROVIDE PLANS, DETAILS AND SPECIFICATIONS TO LANDSCAPE ARCHITECT FOR REVIEW AND PRIOR APPROVAL FOR ACCEPTANCE OF ANY OTHER PRODUCT.

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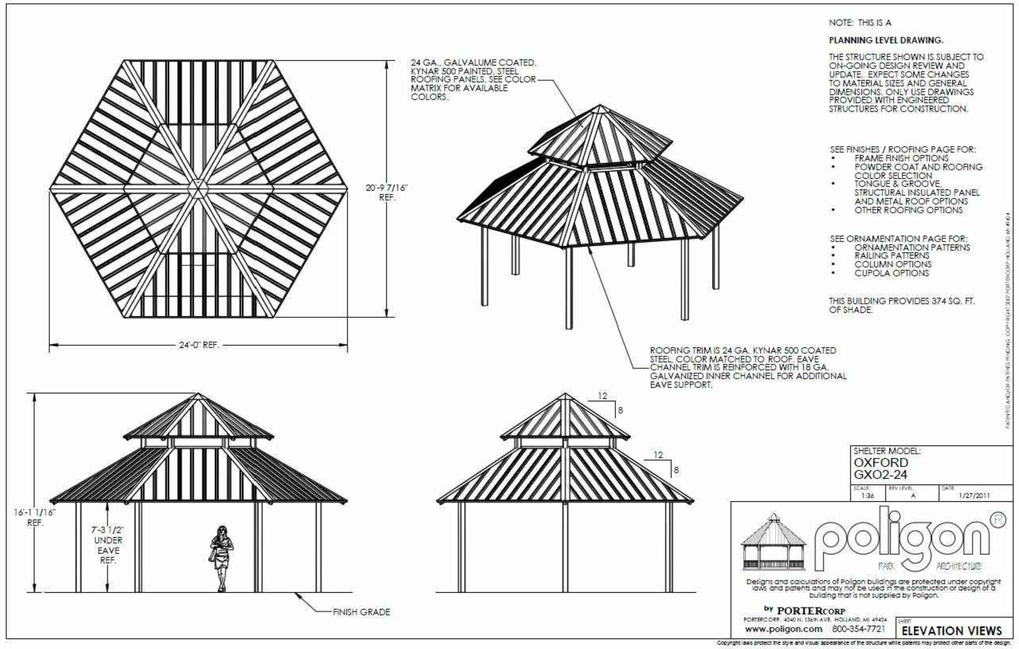
Issue Record/Revision

Purpose	Date

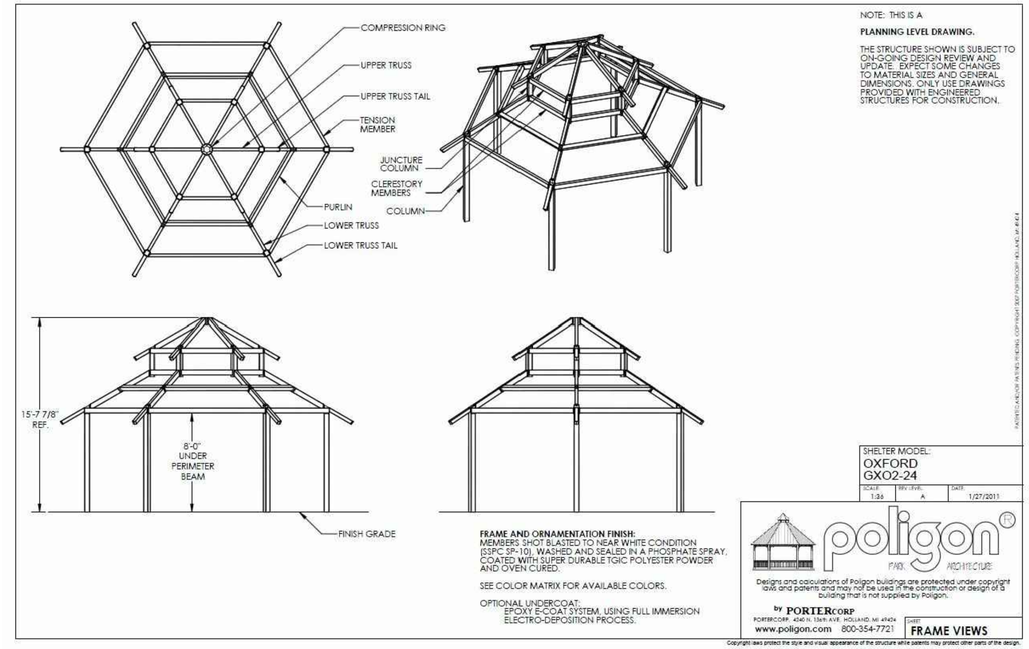
GARY NEW DULUTH COMMUNITY CENTER AND RECREATION AREA

Sheet Key

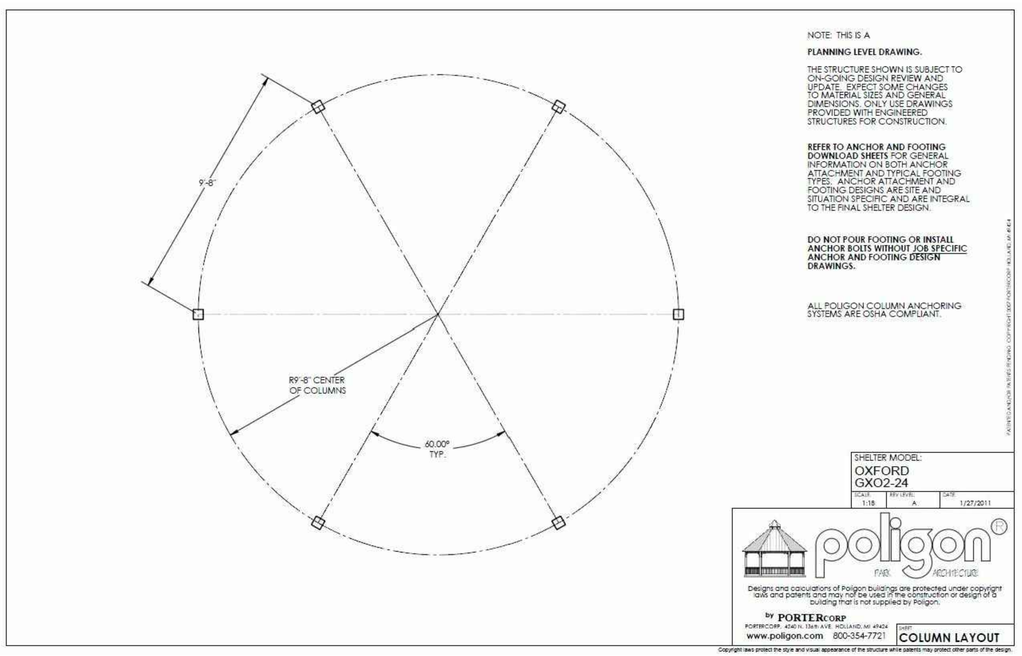
Sheet Title: 40' STRUCTURE DETAILS
Date: 5/21/15
Drawn By: LWS
Checked By: LWS
Project Number: 13340
Sheet Number: L1.7



1 L1.8 ELEVATION VIEWS – 24' STRUCTURE DESIGN
NTS



2 L1.8 FRAME VIEWS – 24' STRUCTURE DESIGN
NTS



3 L1.8 COLUMN LAYOUT – 24' STRUCTURE DESIGN
NTS

NOTE: CONTRACTOR IS RESPONSIBLE FOR PROVIDING SHOP DRAWINGS TO LANDSCAPE ARCHITECT FOR REVIEW AND APPROVAL PRIOR TO ORDERING. THE CONTRACTOR/ SUPPLIER IS ALSO RESPONSIBLE FOR OBTAINING A STRUCTURAL ENGINEER STAMP FOR THE SPECIFIED PRODUCT.

Refer to www.poligon.com download area for:

- FOOTING AND ANCHOR INFORMATION
- COLUMN STYLE OPTIONS
- CUPOLA OPTIONS
- ORNAMENTATION STYLE OPTIONS
- INTEGRATED BENCH OPTIONS
- MISCELLANEOUS OPTIONS
- COLOR CHARTS

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WWW.NORTHLANDREC.COM
PHONE: 651–815–4097
CONTACT: BILL JOHNSON

NOTE: SUBSTITUTES MUST BE OF EQUAL DESIGN AND QUALITY AS THE SHOWN PRODUCT. PROVIDE PLANS, DETAILS AND SPECIFICATIONS TO LANDSCAPE ARCHITECT FOR REVIEW AND PRIOR APPROVAL FOR ACCEPTANCE OF ANY OTHER PRODUCT.

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Issue Record/Revision

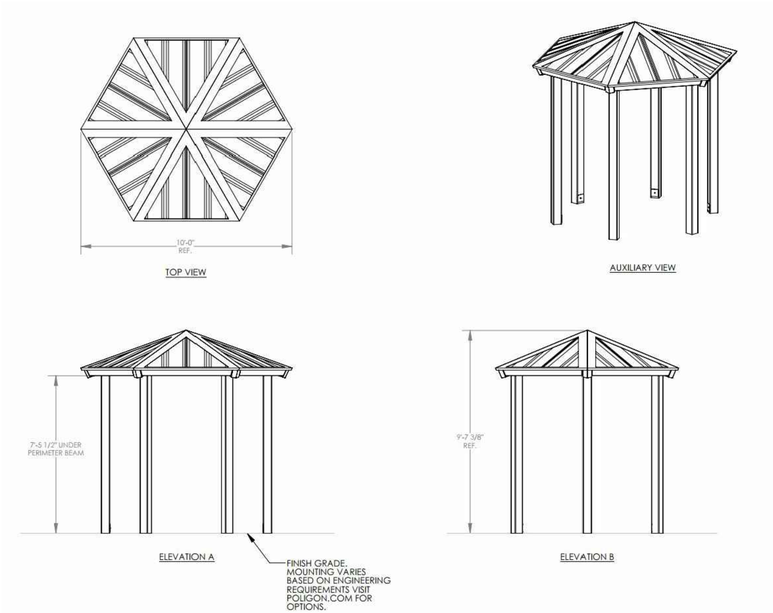
Purpose	Date

GARY NEW DULUTH COMMUNITY CENTER AND RECREATION AREA

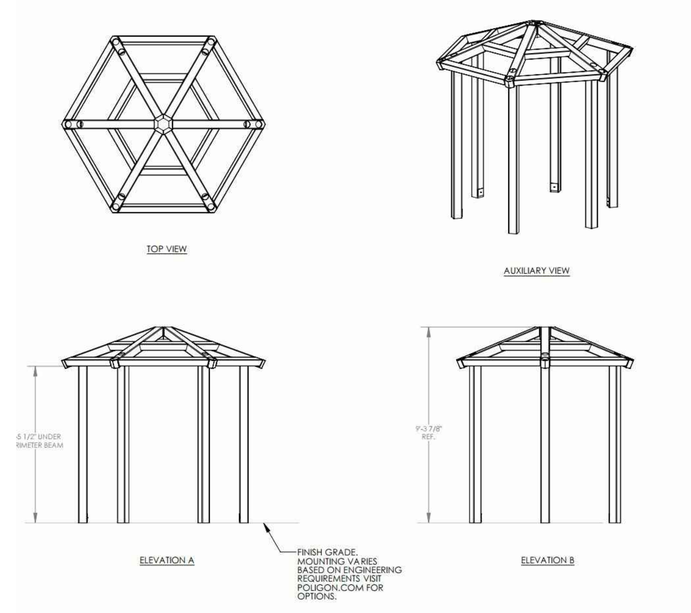
Sheet Key

Sheet Title
24' STRUCTURE DETAILS

Date 5/21/15
Drawn By: LWS
Checked By: LWS
Project Number 13340
Sheet Number L1.8



1 L1.9 ELEVATION VIEWS – 10' STRUCTURE DESIGN
NTS



2 L1.9 FRAME VIEWS – 10' STRUCTURE DESIGN
NTS

GENERAL FRAME NOTES:
1. ALL STEEL COMPONENTS (STRUCTURAL MEMBERS, ORNAMENTATION, RAILING, ETC.) ARE POWDER COATED IN THE FOLLOWING MANNER (UNLESS REQUESTED OTHERWISE):
   - SHOT BLASTED TO NEAR WHITE CONDITION (SSPC SP-10)
   - WASHED AND SEALED IN A PHOSPHATE SPRAY
   - PRIME-COATED WITH POLI-5000 HIGH PERFORMANCE POWDER APPLIED EPOXY
   - TOP-COATED WITH SUPER-DURABLE TGIC POLYESTER POWDER AND OVEN CURED
2. SEE POLIGON.COM FOR COLOR OPTIONS

Refer to www.poligon.com download area for:
- FOOTING AND ANCHOR INFORMATION
- COLUMN STYLE OPTIONS
- CUPOLA OPTIONS
- ORNAMENTATION STYLE OPTIONS
- INTEGRATED BENCH OPTIONS
- MISCELLANEOUS OPTIONS
- COLOR CHARTS

PORTERCORP MANUFACTURES AND DELIVERS PRODUCT IN STRICT COMPLIANCE TO GOVERNING BUILDING CODES.

AVAILABLE THROUGH:

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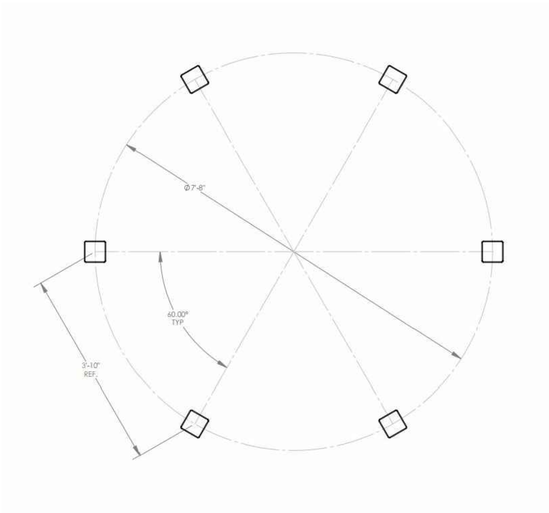
WWW.NORTHLANDREC.COM
PHONE: 651-815-4097
CONTACT: BILL JOHNSON

NOTE: THE DESIGN DETAILS FOR THE 10' STRUCTURE ARE PRELIMINARY. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING SHOP DRAWINGS TO LANDSCAPE ARCHITECT FOR REVIEW AND APPROVAL PRIOR TO ORDERING. THE CONTRACTOR/ SUPPLIER IS ALSO RESPONSIBLE FOR OBTAINING A STRUCTURAL ENGINEER STAMP FOR THE SPECIFIED PRODUCT.

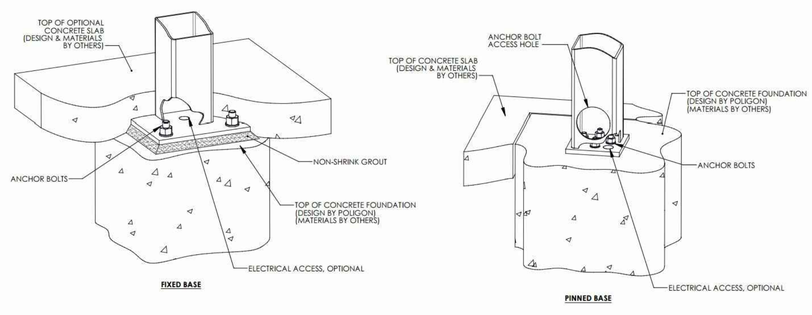
NOTE: SUBSTITUTES MUST BE OF EQUAL DESIGN AND QUALITY AS THE SHOWN PRODUCT. PROVIDE PLANS, DETAILS AND SPECIFICATIONS TO LANDSCAPE ARCHITECT FOR REVIEW AND PRIOR APPROVAL FOR ACCEPTANCE OF ANY OTHER PRODUCT.

NOTES:
1. THE REQUIRED BASE PLATE STYLE IS A FUNCTION OF THE PROJECT SPECIFIC ENGINEERING REQUIREMENTS.
2. POLIGON ENGINEERING WILL DETERMINE THE REQUIRED BASE PLATE STYLE BECAUSE IT CAN DRAMATICALLY AFFECT THE STRUCTURE'S DESIGN AND PERFORMANCE.
3. WE UNDERSTAND THE BASE PLATE STYLE CAN IMPACT THE CONSTRUCTION SEQUENCE (I.E. THE TIMING OF THE SLAB INSTALLATION), SO PLEASE USE THE FOLLOWING INFORMATION AS A GENERAL GUIDE:
   - PINNED BASE PLATES ARE PROVIDED ON THE VAST MAJORITY OF POLIGON STRUCTURES
   - FIXED BASE PLATES ARE TYPICALLY ONLY REQUIRED ON CANTILEVERED STRUCTURES, ON SOME LARGE STRUCTURES (> 2000 SQ FT), AND IN HIGH SEISMIC REGIONS.
4. IF YOUR PROJECT HAS UNIQUE BASE PLATE, SLAB, OR FOUNDATION REQUIREMENTS, PLEASE COMMUNICATE THAT INFORMATION WITH POLIGON WHEN PLACING AN ENGINEERING ORDER.



3 L1.9 COLUMN LAYOUT – 10' STRUCTURE
NTS

BASEPLATE DESIGN INFORMATION SHEET



4 L1.9 BASEPLATE DESIGN INFORMATION – 10' STRUCTURE
NTS

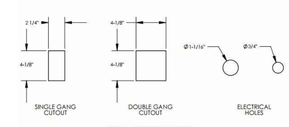
ELECTRICAL ACCESS AND CUTOUTS

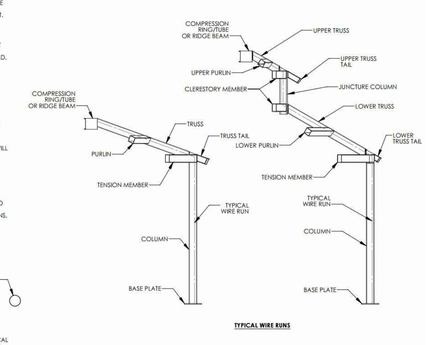
WHAT IS ELECTRICAL ACCESS?
- A 1-1/8" Ø HOLE IS PROVIDED THROUGH COLUMN BASEPLATE.
- 3/4" Ø HOLES ARE PROVIDED THROUGH CONNECTION PLATES TO ALLOW WIRE ACCESS UP INTO COMPRESSION TUBE/RING OR RIDGE BEAM.
- ELECTRICAL ACCESS INTO ADDITIONAL MEMBERS IS AVAILABLE UPON REQUEST.

WHAT ARE ELECTRICAL CUTOUTS?
- ROUND HOLE OR RECTANGULAR CUTOUTS IN MEMBERS, REQUIRED FOR INSTALLATION OF ELECTRICAL FIXTURES OR WIRE ACCESS.
- ALL CUTOUT REQUESTS MUST BE REVIEWED BY OUR ENGINEERING DEPARTMENT (THEIR PLACEMENT MAY AFFECT STRUCTURAL INTEGRITY).
- POLIGON IS NOT RESPONSIBLE FOR UNAUTHORIZED CUTOUTS MADE IN THE FIELD. (ADDING ADDITIONAL CUTOUTS MADE IN THE FIELD WILL VOID THE SHELTER'S WARRANTY.
- TO ENSURE FLUSH MOUNTING OF AN ELECTRICAL FIXTURE, ROUND COLUMNS WILL BE EQUIPPED WITH A WELDED IN ENCLOSURE THAT ACCOMMODATES A STANDARD UL LISTED BOX.

HOW TO COMMUNICATE CUTOUT REQUIREMENTS
- IF THE SUBMITTAL SET IS AVAILABLE, MARK UP THE SUBMITTAL DRAWINGS TO ACCURATELY COMMUNICATE CUTOUTS WITH EXACT DIMENSION(S) AND LOCATION(S).
- IF THE SUBMITTAL SET IS NOT AVAILABLE, MARK UP THE SKETCHES ON THIS SHEET SHOWING CUTOUTS WITH EXACT DIMENSION(S) AND LOCATION(S).
- CUTOUT SIZE MUST BE COMMUNICATED AT TIME OF ORDER.
- INDICATE ON WHICH SIDE OF MEMBER THE CUTOUT IS TO BE LOCATED.
- IF DIMENSION WILL BE FROM CENTER, OR TOP OF CUTOUT, DIMENSION WILL BE TAKEN TO THE BOTTOM OF THE CUTOUT.

WHERE CAN CUTOUTS BE LOCATED?
- OUTLET CUTOUTS ARE TYPICALLY LOCATED 18" ABOVE GRADE ON THE INSIDE FACE OF THE COLUMN.
- LIGHT SWITCH CUTOUTS ARE TYPICALLY LOCATED 48" ABOVE GRADE ON THE INSIDE FACE OF THE COLUMN.
- ALL CUTOUTS ARE TYPICALLY AT LEAST 12" FROM ANY STRUCTURAL JOINTS.
- CUTOUTS ARE TYPICALLY CENTERED ON THE MEMBER WALL (NOT CLOSE TO THE CORNERS).
- CONTACT LOCAL POLIGON REPRESENTATIVE WITH ANY ADDITIONAL QUESTIONS.
- CUTOUTS CAN BE LOCATED THROUGH COVER PLATES.





5 L1.9 ELECTRICAL ACCESS INFORMATION – 10' STRUCTURE
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ISSUE RECORD/REVISION

PURPOSE	DATE

GARY NEW DULUTH COMMUNITY CENTER AND RECREATION AREA

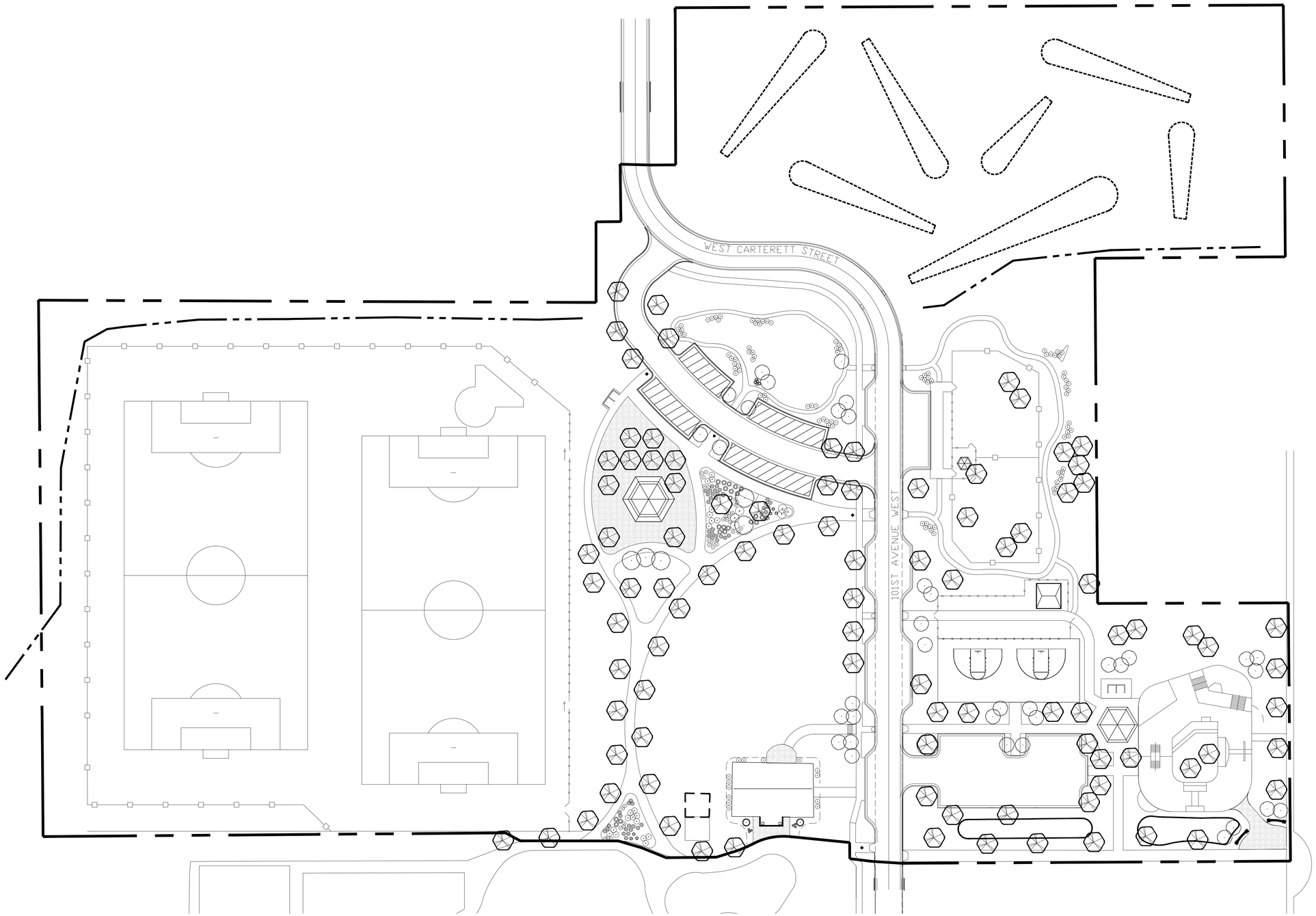
SHEET KEY

SHEET TITLE
10' STRUCTURE DETAILS

DATE 5/21/15
DRAWN BY: LWS
CHECKED BY: LWS

PROJECT NUMBER 13340

SHEET NUMBER L1.9



1 LA1.0 OVERALL LANDSCAPE PLAN
SCALE: 1"=40'-0"

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Issue Record/Revision

Purpose	Date

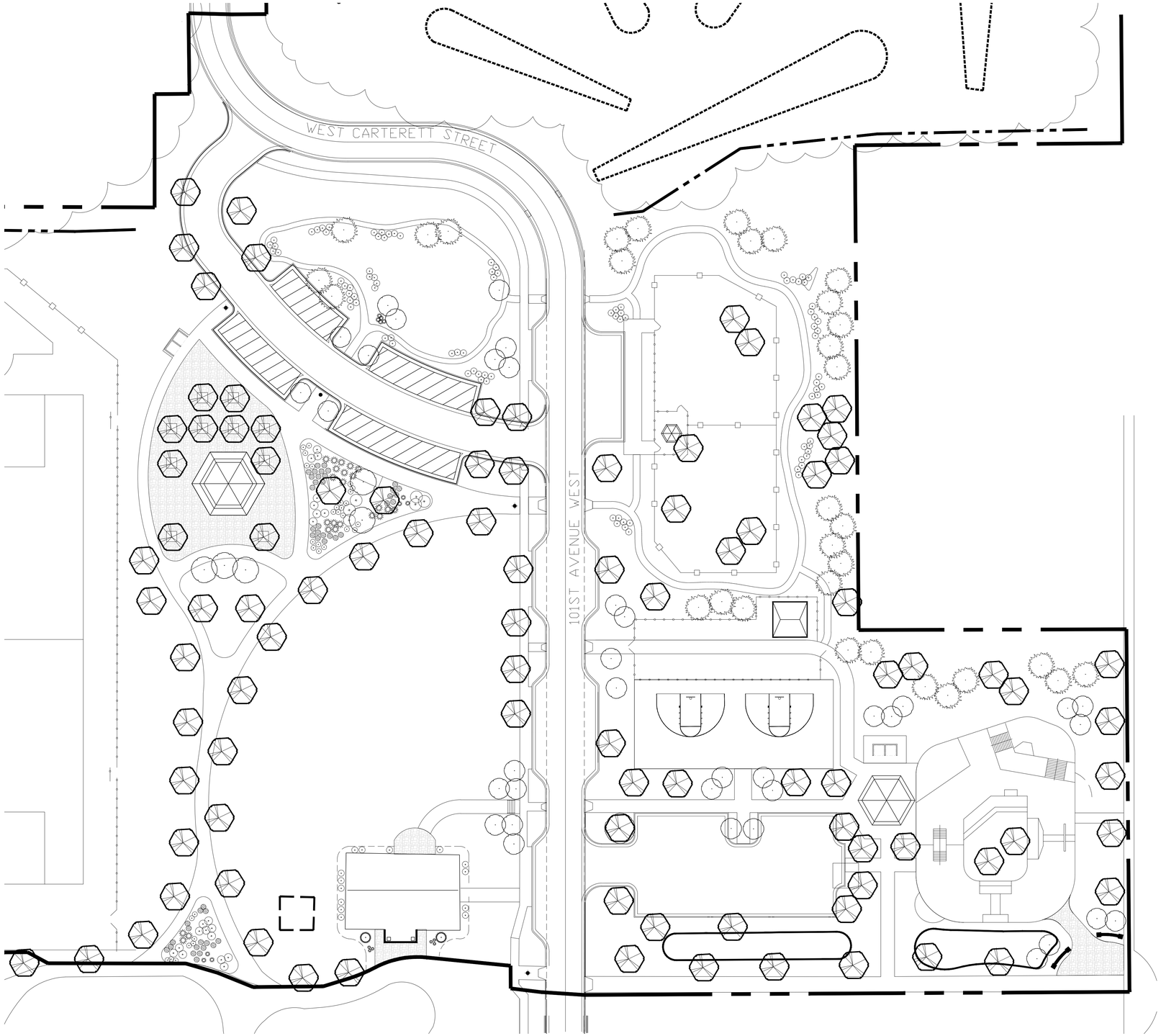
GARY NEW DULUTH COMMUNITY CENTER AND RECREATION AREA

0 40' 80'
ONE INCH

Sheet Key

Sheet Title
OVERALL LANDSCAPE PLAN

Date: 5/21/15
Drawn By: LWS
Checked By: LWS
Project Number 13340
Sheet Number LA1.0



1 LA1.1 DETAIL LANDSCAPE PLAN
SCALE: 1"=30'-0"

LEGEND

DECIDUOUS TREE (95)
(30% MAX/SPECIES)
RED MAPLE
AUTUMN BLAZE MAPLE
QUAKING ASPEN
LINDEN
HACKBERRY

EVERGREEN TREE (32)
BLACK HILLS SPRUCE
COLORADO BLUE SPRUCE
RED PINE

ORNAMENTAL TREE (41)
LITTLE KING BIRCH
JAPANESE TREE LILAC
AMUR MAPLE
REDBUD

DECIDUOUS SHRUB (133)
DWARF BUSH HONEYSUCKLE
PRAIRIE PETITE LILAC
COMPACT AMERICAN VIBURNUM
CRANBERRY BUSH COTONEASTER
WONDERBLUE LILAC
RHODODENDRON

EVERGREEN SHRUB (25)
BIRDS NEST SPRUCE
DWARF NORWAY SPRUCE
DWARF MUGO PINE
ELEGANS SPRUCE

ORNAMENTAL GRASSES (56)
KARL FOERSTER GRASS
PRAIRIE DROPSEED

PERENNIALS (50)
ASTILBE
LIGULARIA
CONEFLOWER
IRIS
CATMINT
RUSSIAN SAGE
SALVIA
SPIDERWORT

NOTE: CONTRACTOR TO PROVIDE OWNER/LANDSCAPE ARCHITECT WITH PROPOSED PLANT LIST FOR REVIEW AND APPROVAL PRIOR TO ORDERING PLANT MATERIAL.
NOTE: CONTRACTOR TO PROVIDE OWNER/LANDSCAPE CONTRACTOR TO STAKE TREE LOCATIONS FOR REVIEW AND APPROVAL BY THE LANDSCAPE ARCHITECT PRIOR TO COMMENCING PLANTING.

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ISSUE RECORD/REVISION

PURPOSE	DATE

GARY NEW DULUTH COMMUNITY CENTER AND RECREATION AREA

0 30' 60'
ONE INCH

SHEET KEY

SHEET TITLE
DETAIL LANDSCAPE PLAN

DATE: 5/21/15
DRAWN BY: LWS
CHECKED BY: LWS
PROJECT NUMBER 13340
SHEET NUMBER LAI.I

1)	SUPPLY AND INSTALL WEED CONTROL FABRIC BELOW ALL SHREDDED HARDWOOD MULCH. PERENNIAL AND GROUND COVER BEDS DO NOT RECEIVE WEED CONTROL FABRIC.
2)	MULCH IS TO BE 4" SHREDDED HARDWOOD MULCH, SUBMIT SAMPLE FOR APPROVAL.
3)	ALL SHRUBS TO BE A MINIMUM OF 3'-0" FROM ALL WALKS OR CURBS (MEASURED FROM THE CENTER OF THE PLANT)
4)	IN ADDITION TO THE PLANTS SHOWN IN THE PLANT LIST, THERE WILL BE 10 EXTRA DECIDUOUS AND 10 EXTRA EVERGREEN SHRUBS TO BE SELECTED AND LOCATED BY THE LANDSCAPE ARCHITECT AT THE TIME OF PLANTING.
5)	EROSION CONTROL NETTING WILL BE USED ON ALL SLOPES GREATER THAN 3:1
6)	SOIL AMENDMENTS TO BE SPREAD EVENLY OVER AREA AT A RATE OF 4 CY./1,000 SF AND MIXED THOROUGHLY INTO SOIL SURFACE.
7)	WITH PRIOR APPROVAL OF THE LANDSCAPE ARCHITECT TOPSOIL MAY BE STOCKPILED AND RE-USED.
8)	VERIFY EXISTING CONDITIONS AND REPORT ANY DISCREPANCIES TO THE LANDSCAPE ARCHITECT IMMEDIATELY. THE CONTRACTOR SHALL DETERMINE THE EXTENT OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. THE CONTRACTOR AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGE
9)	GENERAL CONTRACTOR IS RESPONSIBLE FOR IMPLEMENTATION OF BEST MANAGEMENT PRACTICES (BMP'S) AND COMPLIANCE WITH ALL STATE OF MINNESOTA SEDIMENT CONTROL REQUIREMENTS.
10)	PERIMETER SEDIMENT BMP'S SHALL BE IMPLEMENTED PRIOR TO THE START OF CONSTRUCTION ACTIVITY. STORM INLET PROTECTION SHALL BE MAINTAINED ON ALL STORM DRAINAGE STRUCTURES.
11)	ALL EROSION CONTROL AND SEDIMENT BMP'S SHALL REMAIN IN PLACE AND BE MAINTAINED AS OPERATIONAL UNTIL PERMANENT VEGETATIVE COVER IS ESTABLISHED AND ALL PAVING IS COMPLETE. CONTRACTOR TO REMOVE ALL EROSION CONTROL PROTECTION ITEMS (SILT FENCE, HAY BALES, ETC
12)	ALL HORIZONTAL AND VERTICAL CONTROL AND LAYOUT TO BE ESTABLISHED AND MAINTAINED BY THE GENERAL CONTRACTOR UNDER THIS CONTRACT.
13)	ALL GRADES AND ELEVATIONS SHOWN ARE FINISHED GRADES AND ELEVATIONS.
14)	ALL GRADES SHALL BE SLOPED TO DRAIN AWAY FROM BUILDINGS AT 2% MINIMUM SLOPE.
15)	IN THE EVENT OF A DISCREPANCY WITH PLANT QUANTITIES, THE PLAN, NOT THE PLANT LIST, SHALL GOVERN THE REQUIRED QUANTITIES COORDINATE ALL WORK BETWEEN TRADES. NOTIFY THE PROJECT MANAGER OF ANY CONFLICTS AND DISCREPANCIES IMMEDIATELY THAT AFFECT THIS SITE WORK.
16)	THE CONTRACTOR SHALL MAINTAIN A CLEAN SITE AT ALL TIMES AND SHALL BE RESPONSIBLE FOR REMOVING TRASH AND CONSTRUCTION DEBRIS FROM THE SITE ON A DAILY BASIS. THE TRACKING OF SOIL ONTO ADJOINING ROADWAYS, WALKS AND PARKING AREAS SHALL NOT BE ALLOWED.
17)	ADD 3" OF SELECT TOPSOIL TO AREAS TO RECEIVE SOD. TILL TOPSOIL INTO EXISTING SOILS TO A DEPTH OF 6" PRIOR TO PLACEMENT OF TOPSOIL. REMOVE ALL STONES MEASURING MORE THAN 1", STICKS AND OTHER DEBRIS FROM AREAS TO RECEIVE SOD.
19)	PLANTING SOIL BACKFILL SHALL BE COMPRISED OF 50% NATIVE SOIL THOROUGHLY MIXED WITH 50% TOPSOIL.
20)	CONTRACTOR TO APPLY FOR ALL NECESSARY PERMITS TO WORK WITHIN THE PUBLIC RIGHT OF WAY.

1 LA1.2 LANDSCAPE NOTES
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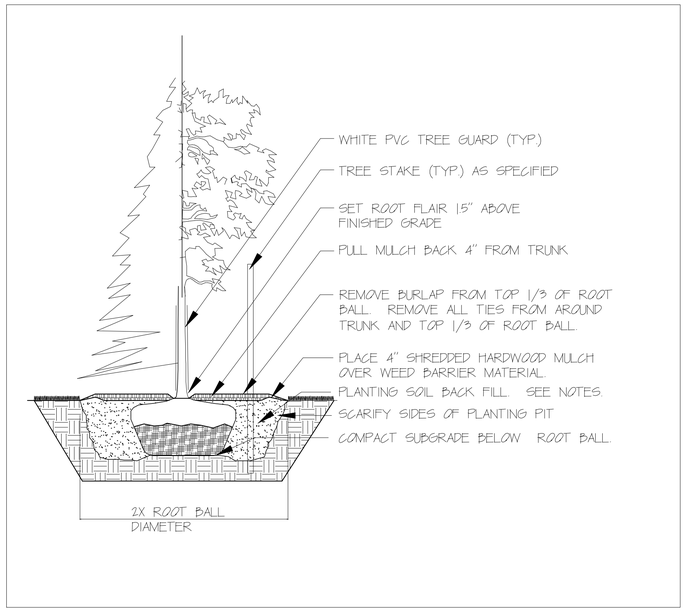
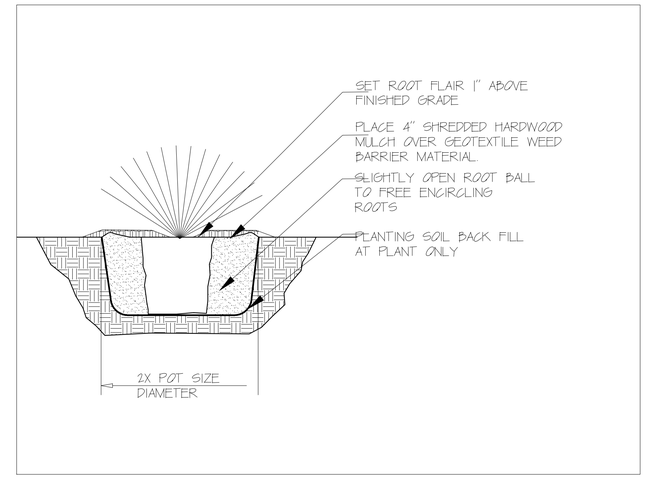
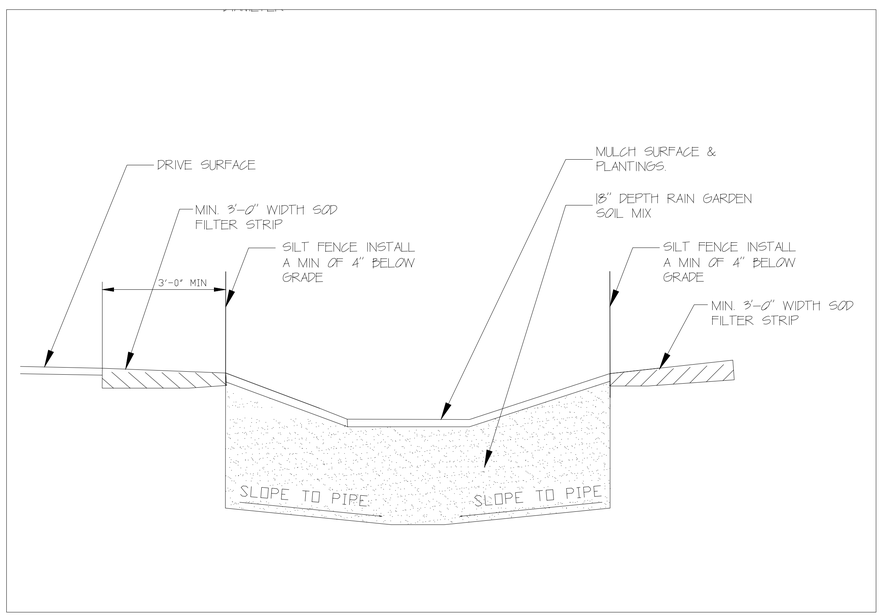


2 LA1.2 DECIDUOUS/EVERGREEN TREE PLANTING DETAIL
NTS



3 LA1.2 DECIDUOUS/EVERGREEN SHRUB PLANTING DETAIL
NTS



4 LA1.2 RAINGARDEN DETAIL
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ISSUE RECORD/REVISION

PURPOSE	DATE

GARY NEW DULUTH COMMUNITY CENTER AND RECREATION AREA

SHEET KEY

SHEET TITLE
LANDSCAPE DETAILS

DATE: 5/21/15
DRAWN BY: LWS
CHECKED BY: LWS
PROJECT NUMBER: 13340
SHEET NUMBER: LA1.2