COFFMAN PARK PHASE I CONSTRUCTION

5200 Emerald Parkway, Dublin, Ohio 43017

APPROVALS

THE SIGNATURES BELOW SIGNIFY ONLY CONCURRENCE WITH THE PURPOSE AND GENERAL LOCATION OF THE PROJECT. ALL TECHNICAL DETAILS REMAIN THE RESPONSIBILITY OF THOSE PREPARING THE PLANS.

NAME 1, TITLE _____ DATE _____

NAME 2, TITLE _____ DATE _____

NAME 3, TITLE _____ DATE _____

NAME 4, TITLE _____ DATE _____

NAME 5, TITLE _____ DATE _____

NAME 6, TITLE _____ DATE _____

MKSK SHEET LIST

Sheet No.	Description
LA	Cover Sheet
LB-1	Standards & General Notes
LC-1	Erosion Control & Sedimentation Plan
LD-0	Overall Existing Conditions & Demolition Plan
LD-1-7	Demolition Plans
LG-0	Overall Grading Plan
LG-1-7	Grading Plans
LH-0	Overall Layout & Materials Plan
LH-1-7	Layout & Materials Plans
LP-0	Overall Planting Plan
LP-1-3	Planting Plans
LP-4	Seeding Plan
LZ-1.0-1.2	Site Details
LZ-2	Storm Pipe/Basin Layouts

B&N SHEET LIST

Sheet No.	Description
1	Legend Sheet
2	General Summary
3-5	General Notes
5A	Maintenance of Traffic Notes
6	Utility Conduit Trench Details
7-12	Street Plan/Profile Sheets
13	Maint. Bldg. Spur Plan
14-17	AEP Utility Sheets
18	TWC Utility Sheet
19	Electrical Site Plan

Eco-Design SHEET LIST

Sheet No.	Description
C-1	Cover Sheet & Notes
C-2	General Notes Cont.
C-3	T54 Structure Plans
C-4	T54 Structure Details
C-5	T22 Structure Plans
C-6	T22 Structure Details
C-7	Temp. Bridge Plan/Details
C-8	Rock Stabilization Details

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Parks & Open Space Dept.
6555 Shier-Rings Rd.
Dublin, OH 43016
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Burgess & Niple
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CONSTRUCTION SET
(FOR BIDDING)
MAY 20, 2013
PROJECT NO. c12200

DRAWINGS PREPARED BY:

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LANDSCAPE ARCHITECTURE + URBAN PLANNING

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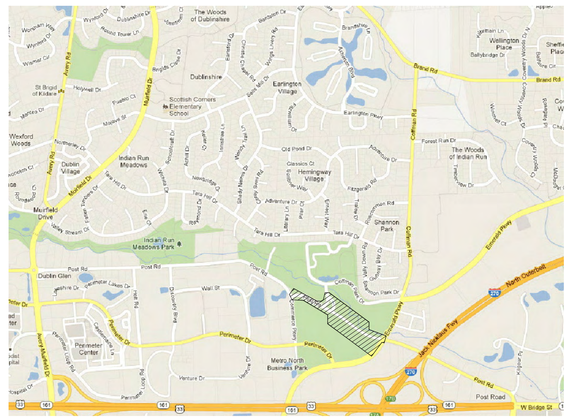

SITE LOCATION MAP
NOT TO SCALE

Ohio Utilities Protection Service
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ABBREVIATIONS

AB	ANCHOR BOLT	HP	HIGH POINT
AD	AREA DRAIN	HT	HEIGHT
ADA	AMERICANS WITH DISABILITIES ACT	ID	INSIDE DIAMETER
ADD	ADDENDUM	IDR	INLET DRAIN
ADJ	ADJACENT	IN	INCH, INCHES
AGG	AGGREGATE	INC	INCLUDED
AL	ALIGN	INT	INTERIOR
ALT	ALTERNATE	INV	INVERT
ALUM	ALUMINUM	JB	JUNCTION BOX
APPR	APPROXIMATE	LP	LOW POINT
ARCH	ARCHITECT	LT	LIGHT FIXTURE
AUTO	AUTOMATIC	MANF	MANUFACTURER
AWA	ALIGN WITH ARCHITECTURE	MAX	MAXIMUM
AWC	ALIGN WITH CENTER	ME	MATCH EXISTING
B&B	BALLED AND BURLAPPED	MECH	MECHANICAL
BC	BACK OF CURB	MED	MEDIUM
BEL	BELOW	MH	MANHOLE
BET	BETWEEN	MIN	MINIMUM
BIT	BITUMINOUS	MISC	MISCELLANEOUS
BLDG	BUILDING	MS	MULTI-STEM
BLK	BLOCK	NIC	NOT IN CONTRACT
BOT	BOTTOM	NOM	NOMINAL
BR	BARE ROOT	NTS	NOT TO SCALE
BRK	BRICK	OA	OVERALL
BS	BOTH SIDES	OC	ON CENTER
BTC	BOTTOM OF CURB	OD	OUTSIDE DIAMETER
BTF	BOTTOM OF FOOTING	PCC	PRECAST CONCRETE
BTS	BOTTOM OF STEPS	PERF	PERFORATED
BTW	BOTTOM OF WALL	PERP	PERPENDICULAR
BVL	BEVEL	PIP	POURED IN PLACE
BW	BACK OF WALL	PLT	PLANTING AREA
BYND	BEYOND	PLUM	PLUMBING
CAL	CALIPER	POB	POINT OF BEGINNING
CB	CATCH BASIN	PP	PEAT POTS
CH	CHAMFER	PPP	PLANTS PER POT
CIP	CAST IN PLACE	PROP	PROPOSED
CJ	CONTROL JOINT	PRTR	PRESERVATIVE TREATED
CL	CENTER LINE	PT	POINT
CMU	CONCRETE MASONRY UNIT	PTP	PRESSURE TREATED PINE
CO	CLEANOUT	PW	POTABLE WATER
COL	COLUMN	PVMT	PAVEMENT
CONC	CONCRETE	QC	QUICK COUPLER
CONT	CONTINUOUS	QTY	QUANTITY
CRS	COURSE	R	RADIUS
CT	CLEAR TRUNK	RD	ROUND
CTR	CENTER	REINF	REINFORCED
DBH	DIAMETER AT BREAST HEIGHT	REM	REMOVE
DEM	DEMOLISH	REQD	REQUIRED
DF	DRINKING FOUNTAIN	REV	REVISION
DIA	DIAMETER	RIM	RIM ELEVATION
DIM	DIMENSION	SCH	SCHEDULE
DS	DOWNSPOUT	SEC	SECTION
DTL	DETAIL	SHT	SHEET
DWG	DRAWING	SIM	SIMILAR
EA	EACH	SNT	SEALANT
EJ	EXPANSION JOINT	SOG	SLAB ON GRADE
EL	ELEVATION	SPEC	SPECIFICATION
ELEC	ELECTRICAL	SPR	SPREAD
ENC	ENCLOSURE	SS	STAINLESS STEEL
ENG	ENGINEER	ST	SINGLE TRUNK
EOP	EDGE OF PAVEMENT	STD	STANDARD
EQ	EQUAL	STRUC	STRUCTURAL
EQUIP	EQUIPMENT	SQ	SQUARE
EW	EACH WAY	TBD	TO BE DETERMINED
EX	EXISTING	TC	TOP OF CURB
EXT	EXTERIOR	TCB	TOP OF COLUMN BASE
FB	FACE OF BUILDING	TCM	TOP OF COLUMN
FC	FACE OF CURB	TEMP	TEMPERATURE
FFE	FINISH FLOOR ELEVATION	TF	TOP OF FOOTING
FG	FINISH GRADE	TS	TOP OF STAIRS
FIN	FINISH	TW	TOP OF WALL
FW	FACE OF WALL	TYP	TYPICAL
FT	FOOT, FEET	UC	UNDER CUT
FTG	FULL TO GROUND	UNO	UNLESS NOTED OTHERWISE
FTR	FUTURE	VERT	VERTICAL
GA	GAUGE	VIF	VERIFY IN FIELD
GAL	GALLON	W/	WITH
GALV	GALVANIZED	W/O	WITHOUT
GC	GENERAL CONTRACTOR	WI	WROUGHT IRON
GEN	GENERAL	WLA	WATER LEVEL AVERAGE
GRT	GRATE ELEVATION	WLS	WATER LEVEL STATIONARY
HB	HOSE BIB	WM	WIRE MESH
HC	HANDICAPPED	WR	WASTE RECEPTACLE
HORIZ	HORIZONTAL	WWF	WELDED WIRE FABRIC

LINE TYPES

- EX. CABLE
- EX. UNDERGROUND ELECTRIC
- PROP. UNDERGROUND ELECTRIC
- EX. OVERHEAD ELECTRIC
- EX. GAS
- EX. TELEPHONE
- EX. SANITARY SEWER
- EX. STORM SEWER
- PROP. STORM SEWER
- PROP. PERF. STORM DRAIN
- PROP. SILT FENCE
- EX. WATER
- PROP. WATER
- PROP. CONTOUR MAJOR
- PROP. CONTOUR MINOR
- EX. CONTOUR
- EX. FENCE
- PROP. FENCE
- PROP. RIGID CONDUIT
- PROP. TREE PROTECTION FENCE
- CENTER LINE
- LIMIT OF CONSTRUCTION
- PROPERTY LINE
- EASEMENT
- SEEDING LIMITS

STANDARD SYMBOLS

- STREET LIGHT
- PATHWAY LIGHT
- FIELD LIGHT
- LANDSCAPE UP LIGHT
- ELECTRICAL JUNCTION BOX
- ELECTRICAL HANDHOLE
- ELECTRICAL BOX
- ELECTRICAL METER
- ELECTRICAL PULL BOX
- CABLE BOX
- TELEPHONE BOX
- GAS VALVE
- GAS SHUTOFF
- GAS METER
- WATER VALVE
- WATER METER
- FIRE HYDRANT
- SANITARY MANHOLE
- SANITARY METER
- CLEANOUT
- CATCH BASIN
- INLET DRAIN
- STORM MANHOLE
- DIRECTION OF OVERLAND FLOW
- DIRECTION OF PIPE FLOW
- PARKING METER
- SIGN
- BENCHMARK
- EXISTING DECIDUOUS TREE
- EXISTING EVERGREEN TREE
- CENTER LINE

GENERAL NOTES

1. CONTRACTOR SHALL PROVIDE TEMPORARY SAFETY FENCING AROUND ENTIRE PROJECT LIMITS OF WORK.
2. THE EXISTENCE AND APPROXIMATE LOCATION OF ANY UNDERGROUND UTILITY PIPES OR STRUCTURES SHOWN ON THESE PLANS ARE OBTAINED BY THE AVAILABLE RECORDS. THE CONTRACTOR IS REQUIRED TO TAKE DUE PRECAUTIONARY MEASURES TO PROTECT THE UTILITY LINES SHOWN AND ANY OTHER LINES NOT OF RECORD OR NOT SHOWN ON THESE PLANS. TO VERIFY THE LOCATION OF UNDERGROUND UTILITIES (EXCEPT WATER, SANITARY, STORM AND TRAFFIC CONTROL) THE CONTRACTOR SHALL CALL OHIO UTILITIES PROTECTION SERVICE (CALL 811) TWO WORKING DAYS PRIOR TO STARTING ANY EXCAVATION WORK FOR IMPROVEMENTS ON THESE PLANS. THE CONTRACTOR SHALL ALSO CALL THE CITY OF DUBLIN PARKS & OPEN SPACE DEPT. (614.410.4700) TWO WORKING DAY PRIOR TO STARTING ANY EXCAVATION TO VERIFY THE LOCATION OF ANY PRIVATE UTILITY LINES ON THE PROJECT SITE.
3. THIS SURVEY IS BASED UPON INFORMATION PROVIDED BY THE CITY OF DUBLIN, AND DOES NOT INCLUDE EASEMENTS EXCEPT THOSE SPECIFICALLY DELINEATED HEREON. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS AND REPORT ANY DISCREPANCIES TO THE OWNER'S REPRESENTATIVE PRIOR TO COMMENCING WORK.
4. CONTRACTOR SHALL REPAIR AT HIS OWN EXPENSE, ANY DAMAGE, WHETHER INSIDE OR OUTSIDE OF THE PROJECT LIMITS, TO UTILITY SYSTEMS, SURFACE PAVEMENTS, FIXTURES OR STRUCTURES THAT ARE NOT SPECIFICALLY INDICATED TO BE REMOVED OR RELOCATED AS PART OF THE PROJECT CONSTRUCTION.
5. EXISTING IMPROVEMENTS WHICH ARE NOT NOTED TO BE REMOVED SHALL BE PROPERLY PROTECTED DURING THE CONSTRUCTION PERIOD. EXISTING TREES SHALL BE PROTECTED FROM IMPACT BY ANY EQUIPMENT AS WELL AS COMPACTION OF ROOT ZONE AREAS. REFER TO SPECIFICATIONS AND DETAILS FOR TREE PROTECTION REQUIREMENTS.
6. ALL DEBRIS AND ITEMS REMOVED SHALL BE DISPOSED OF LEGALLY OFF-SITE. EXCESS CLEAN EXCAVATION MAY BE PLACED ON-SITE ONLY AT THE DISCRETION OF THE OWNER'S REPRESENTATIVE.
7. EXISTING FOUNDATIONS SHALL BE COMPLETELY REMOVED BELOW THE FOOTPRINT OF NEW FOUNDATIONS.
8. ALL DIMENSIONS ON THIS DRAWING ARE IN FEET AND INCHES UNLESS OTHERWISE STATED.
9. THE CONSTRUCTION LIMITS LINE SHOWN DEFINES THE LIMITS OF WORK IN THIS CONTRACT. THERE MAY BE INSTANCES WHERE EROSION PROTECTION DEVICES, UTILITY SYSTEMS, AND GRADING OPERATIONS EXTEND BEYOND THE PROJECT LIMITS LINE IN ORDER TO SUCCESSFULLY COMPLETE OPERATIONS AND/OR TIE INTO ADJACENT SYSTEMS.

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key plan

issue date 5.28.2013

project number c12200

sheet name
STANDARDS & GENERAL NOTES

sheet number
LB-1

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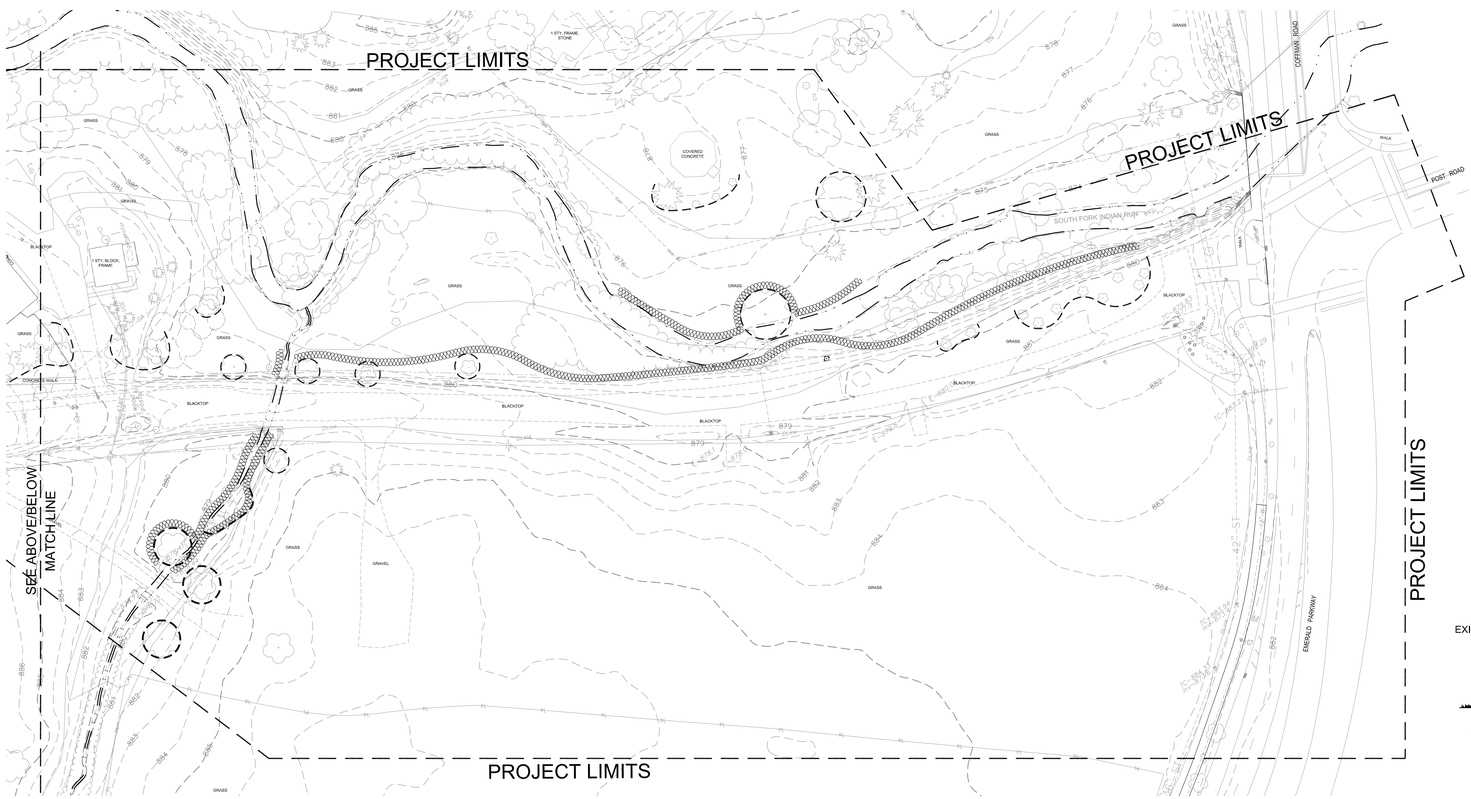
0 30' 60' 120'
SCALE: 1" = 60'

NORTH



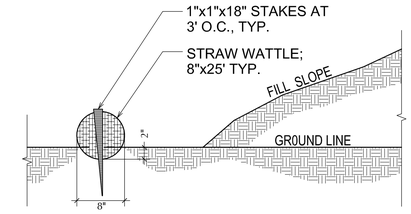
GENERAL SWPPP NOTES

1. NATURE OF CONSTRUCTION - THE EXISTING SITE CONSISTS OF VARIOUS PARK IMPROVEMENTS, INCLUDING PEDESTRIAN BRIDGES, VEHICULAR DRIVES, PEDESTRIAN WALKS, LIGHTING, STONE WALLS, AND LANDSCAPE IMPROVEMENTS. WORK TO BE INCLUDED UNDER THIS PLAN CONSISTS OF INSTALLING EROSION AND SEDIMENT CONTROL BASINS, STRIPPING OF TOPSOIL AND STOCKPILING, EXCAVATION AND FILLING, RE-SPREADING TOPSOIL, INSTALLATION OF STORM DRAINAGE AND PIPE SLEEVES, CONSTRUCTION OF PAVING, POLLUTION PREVENTION MEASURES, AND STABILIZATION OF ALL DISTURBED AREAS DURING AND AFTER THE CONSTRUCTION. TOTAL DISTURBED AREA IS ±11.7 ACRES.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTION OF ALL UTILITIES AND DAMAGES AS A RESULT OF HIS WORK. THE CONTRACTOR SHALL NOTIFY THE OHIO UTILITIES PROTECTION SERVICES AT LEAST 2 WORKING DAYS PRIOR TO ANY DIGGING (800) 362-2764.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL LOCAL PERMITS AND ASSOCIATED PERMIT FEES REQUIRED FOR THE CONSTRUCTION. THE CONTRACTOR WILL FILE THE NOTICE OF INTENT NOI AS REQUIRED FOR THE NPDES GENERAL PERMIT FOR CONSTRUCTION ACTIVITIES AND IS RESPONSIBLE FOR FOLLOWING THE PERMIT. SUBMITTAL OF A CO-PERMITTEE NOTICE OF INTENT FOR ALL REQUIRED SUBCONTRACTORS, INSPECTIONS AND RECORDING OF INSPECTION REPORTS EVERY 7 DAYS AND WITHIN 24 HOURS AFTER ANY RAINFALL EVENT GREATER THAN $\frac{1}{2}$ INCH. ALL INSPECTION RECORDS SHALL BE KEPT FOR 3 YEARS AFTER SUBMITTAL OF THE NOTICE OF TERMINATION NOT WITHIN 45 DAYS OF FINAL STABILIZATION.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SAFETY PRECAUTIONS RELATED TO THE CONSTRUCTION.
5. ANY STOCKPILE AREAS SHALL BE COMPACTED TO 85% STANDARD PROCTOR TO MINIMIZE EROSION POTENTIAL.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF SOIL OR MATERIAL TESTING REQUIRED TO MEET THE SPECIFICATIONS.
7. TEMPORARY STRAW LOGS AND OTHER SEDIMENT CONTROL STRUCTURES SHALL BE INSTALLED PRIOR TO ANY STRIPPING OF TOPSOIL OR OTHER LAND DISTURBING ACTIVITIES.
8. ALL DISTURBED AREAS MUST BE STABILIZED WITHIN 7 DAYS AFTER CONSTRUCTION ACTIVITIES HAVE CEASED IN THAT AREA UNLESS CONSTRUCTION WILL RESUME WITHIN 21 DAYS AFTER STOPPING.
9. ALL SEDIMENT CONTROL MEASURES SHALL BE CHECKED EVERY 7 DAYS AND AFTER EACH RAINSTORM AND REPAIRED AS NECESSARY. ANY MODIFICATIONS TO THE STORMWATER POLLUTION PREVENTION PLAN SWPPP SHALL BE NOTED IN THE INSPECTION REPORTS AND APPROVED BY THE CIVIL ENGINEER. SILT BUILD-UP SHALL BE REMOVED AND PROPERLY DISPOSED OF WHEN IT REACHES A DEPTH OF 1 FOOT OR 1/2 THE HEIGHT OF THE SEDIMENT CONTROL DEVICE, WHICHEVER IS LESS. MEASURES SHALL BE EVALUATED FOR EFFECTIVENESS AND WHETHER ADDITIONAL MEASURES ARE NEEDED TO CONTROL SEDIMENT RUNOFF.
10. SEDIMENT SHALL BE REMOVED BY THE GRADING CONTRACTOR FROM SILT BASINS AND FENCES PRIOR TO THE REMOVAL OF EROSION CONTROL DEVICES AND SPREAD OVER AREAS OF THE SITE OUT OF THE PATH OF FLOWING WATER. THE GRADING CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF SILT FENCES, SEDIMENT CONTROL STRUCTURES, ANY ACCUMULATED DEBRIS, AND FOR ANY CLEAN-UP REQUIRED.
11. ANY FIELD TILE ENCOUNTERED OR CUT DURING THE CONSTRUCTION SHALL BE REPAIRED AND NOTED ON THE AS-BUILT PLANS.
12. STOCKPILED TOPSOIL ONSITE SHALL BE SPREAD OVER SLOPES, WETLAND BASIN SIDES, AND SHOULDERS TO A MINIMUM DEPTH OF 6". AREAS TO RECEIVE TOPSOIL SHALL BE SCARIFIED IMMEDIATELY PRIOR TO PLACING OF TOPSOIL.
13. FINAL SEEDING OF DISTURBED AREAS SHALL FOLLOW THE SPECIFICATIONS.
14. THE CONTRACTOR SHALL LIMIT CONSTRUCTION TRAFFIC TO MINIMIZE DISTURBANCE AND COMPACTION OF THE SITE. ALL AREAS IMPACTED BY CONSTRUCTION OR CONSTRUCTION TRAFFIC SHALL BE SCARIFIED TO BREAK UP SOIL PRIOR TO FINAL GRASSING.
15. THE CONTRACTOR SHALL CLEAN EXCESSIVE SOIL FROM THE GRAVEL CONSTRUCTION ENTRANCES AND SPREAD NEW STONE AS NEEDED TO LIMIT EXCESS SOIL FROM LEAVING THE SITE.
16. THE CONTRACTOR SHALL PROTECT TEMP BENCH MARKS, LAYOUT AND GRADE STAKES, AND ANY OTHER MATERIALS USED FOR ESTABLISHING CONSTRUCTION LAYOUT AND ELEVATIONS.
17. THE OWNER IS THE CITY OF DUBLIN OHIO, AND WILL BE RESPONSIBLE FOR MAINTENANCE OF PERMANENT FACILITIES.

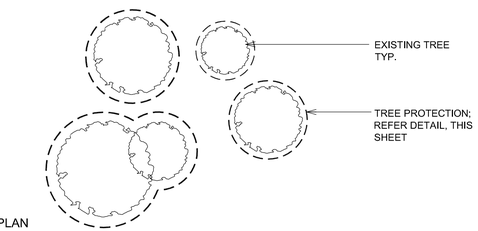
PLAN LEGEND

STRAW WATTLE

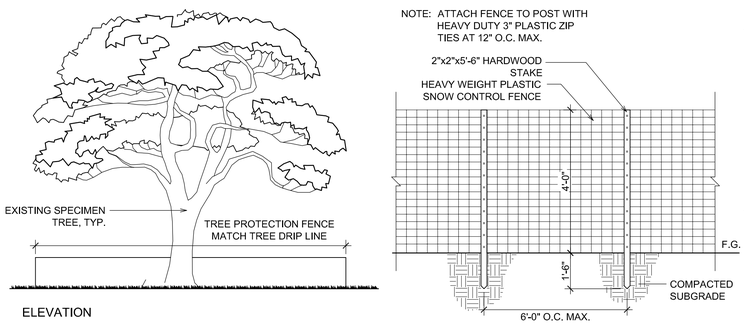
TREE PROTECTION FENCING



A STRAW WATTLE
SCALE: 1" = 1'-0"



PLAN



ELEVATION

B TREE PROTECTION FENCE
NTS

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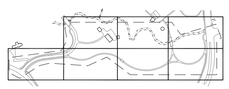
key plan



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sheet name
EROSION CONTROL & SEDIMENTATION PLAN

sheet number
LC-1

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DEMOLITION NOTES

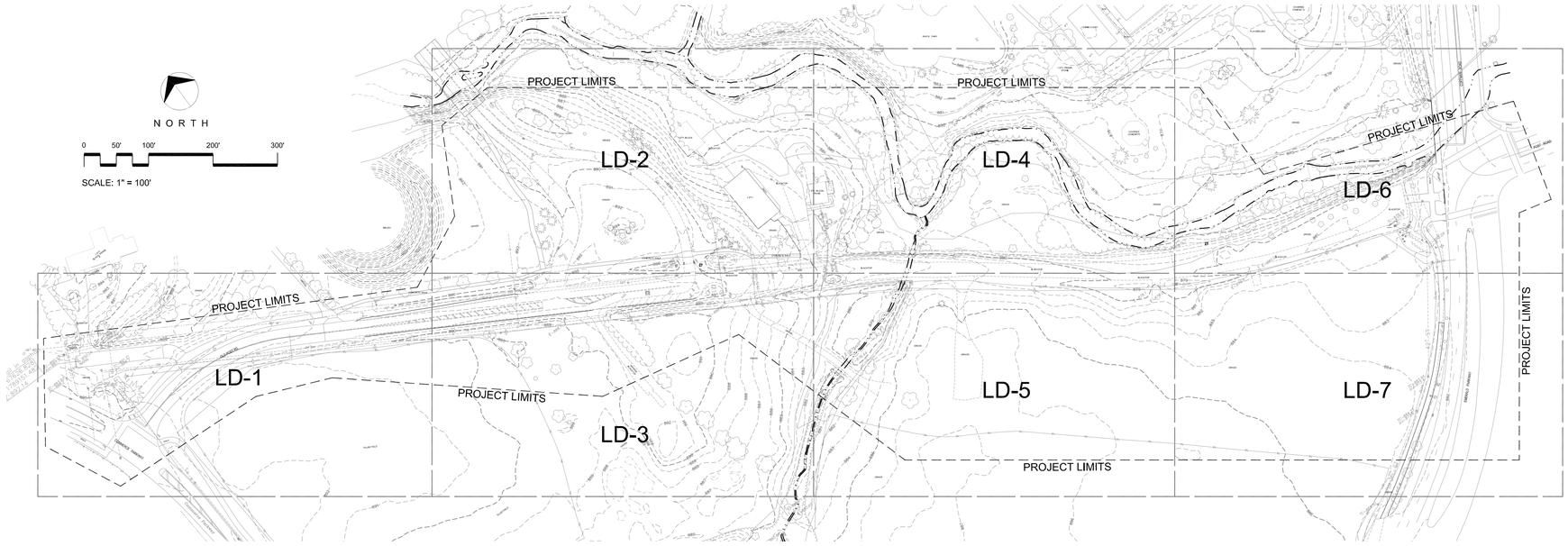
1. UTILITIES SHOWN ARE BASED ON SURVEY INFORMATION PROVIDED BY THE CITY OF DUBLIN OHIO. THE CONTRACTOR IS RESPONSIBLE FOR THE INVESTIGATION, LOCATION, SUPPORT, PROTECTION, AND RESTORATION OF ALL EXISTING UTILITIES AND APPURTENANCES WHETHER SHOWN ON THIS PLAN OR NOT.
2. SEE LAYOUT PLANS FOR LOCATION AND LAYOUT OF NEW WORK.
3. ALL ITEMS WITHIN WORK LIMITS NOTED FOR DEMOLITION SHALL BE REMOVED & LEGALLY DISPOSED OF OFF-SITE BY CONTRACTOR.
4. ALL AREAS DISTURBED BY DEMOLITION THAT ARE NOT WITHIN LIMIT OF WORK SHALL BE REESTABLISHED TO PRE-CONSTRUCTION CONDITION, UNLESS OTHERWISE NOTED, AT NO ADDITIONAL COST TO THE OWNER.
5. ALL DEBRIS (STONES, BRICK, BRUSH, ETC.) OVER 1" IN DIAMETER TO BE REMOVED FROM SITE TO A DEPTH OF 6" PRIOR TO COMMENCEMENT OF CONSTRUCTION.
6. ERECT CONSTRUCTION FENCING AS REQUIRED TO LIMIT ACCESS.
7. REFER SHEET LB-100 FOR STANDARDS AND GENERAL NOTES.

DEMOLITION CODED NOTES

1. EXISTING FIRE HYDRANT TO BE RELOCATED
2. EXISTING ASPHALT & GRANULAR BASE TO BE REMOVED
3. EXISTING STREET LIGHT TO BE REMOVED
4. EXISTING STONE ENTRY SIGN TO BE REMOVED
5. EXISTING STONE WALL TO BE REMOVED
6. EXISTING CONCRETE CURB TO BE REMOVED
7. EXISTING STREET SIGN TO BE REMOVED
8. EXISTING TREE TO BE REMOVED
9. NOT USED
10. EXISTING CONCRETE WALK & GRANULAR BASE TO BE REMOVED
11. EXISTING CULVERT PIPE TO BE REMOVED
12. EXISTING STORM INLET TO BE REMOVED
13. EXISTING WOOD FENCE TO BE REMOVED
14. EXISTING TIMBER GUARDRAIL TO BE REMOVED
15. EXISTING CONCRETE APRON & GRANULAR BASE TO BE REMOVED
16. EXISTING SHRUBS/PERENNIALS TO BE REMOVED
17. EXISTING WOOD BOLLARDS TO BE REMOVED
18. EXISTING CONCRETE STORM PIPE TO BE REMOVED
19. EXISTING CONCRETE STORM LINE TO BE ABANDONED IN PLACE
20. NOT USED
21. EXISTING WOOD UTILITY POLE TO BE REMOVED (COORDINATE REMOVAL WITH AFFECTED UTILITY COMPANIES)
22. CLEAR & GRUB (REMOVE EXISTING TREES & UNDERSTORY PLANT MATERIAL)
23. EXISTING ASPHALT BIKE PATH& GRANULAR BASE TO BE REMOVED
24. EXISTING GRAVEL TO BE REMOVED

DEMOLITION LEGEND

TREE PROTECTION FENCE



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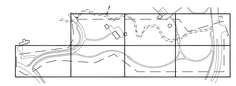

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sheet name
OVERALL DEMOLITION PLAN

sheet number
LD-0

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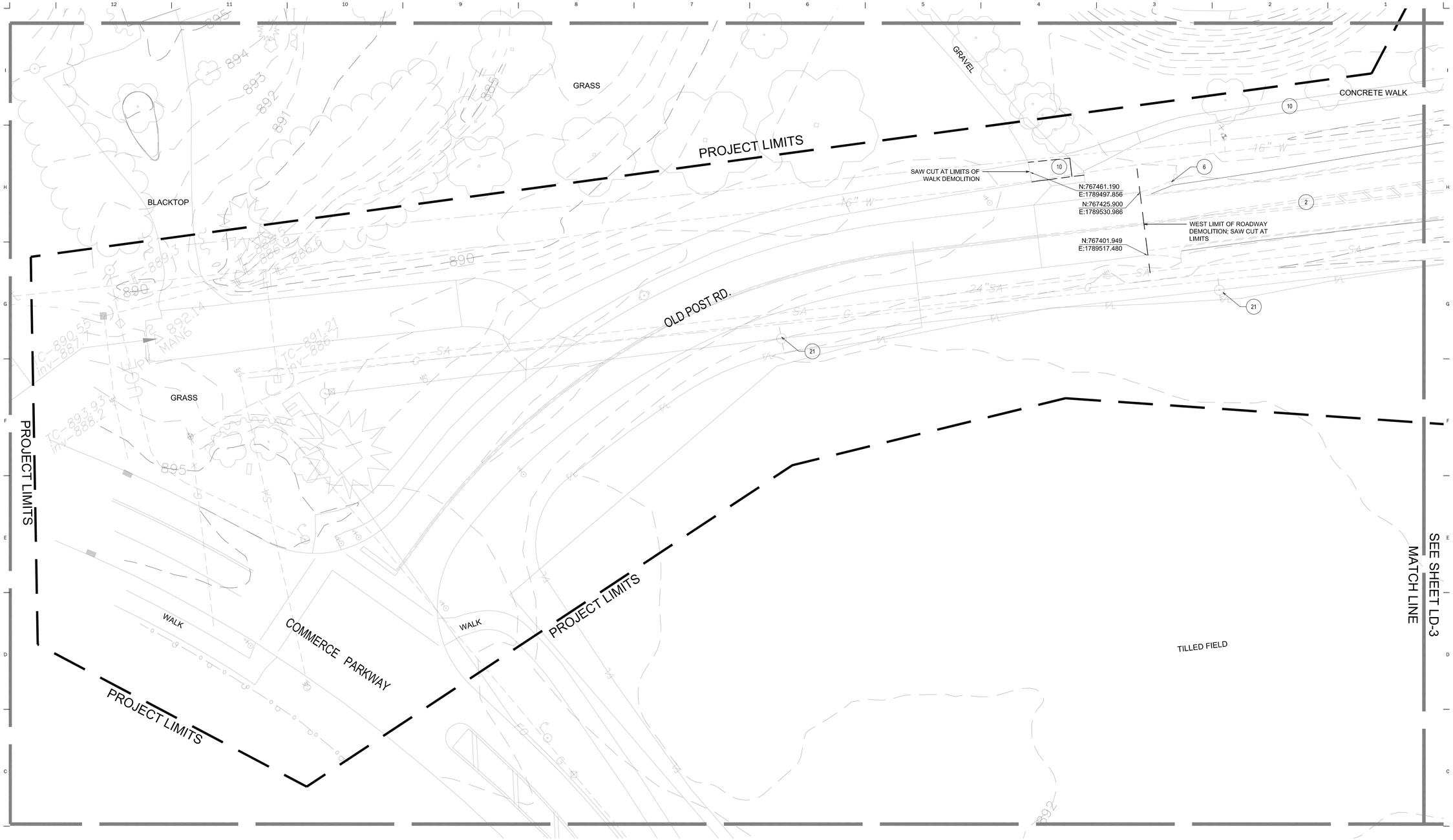

0 10' 20' 40' 60'

SCALE: 1" = 20'

DEMOLITION LEGEND

TREE PROTECTION FENCE

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462 SOUTH LUDLOW ALLEY
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project name
COFFMAN PARK EXPANSION

project address
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Dublin, OH 43017

civil engineer
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Plain City, OH 43064
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utilities/electrical engineer
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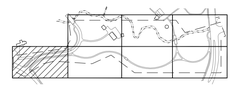
revision	date	issued

key plan

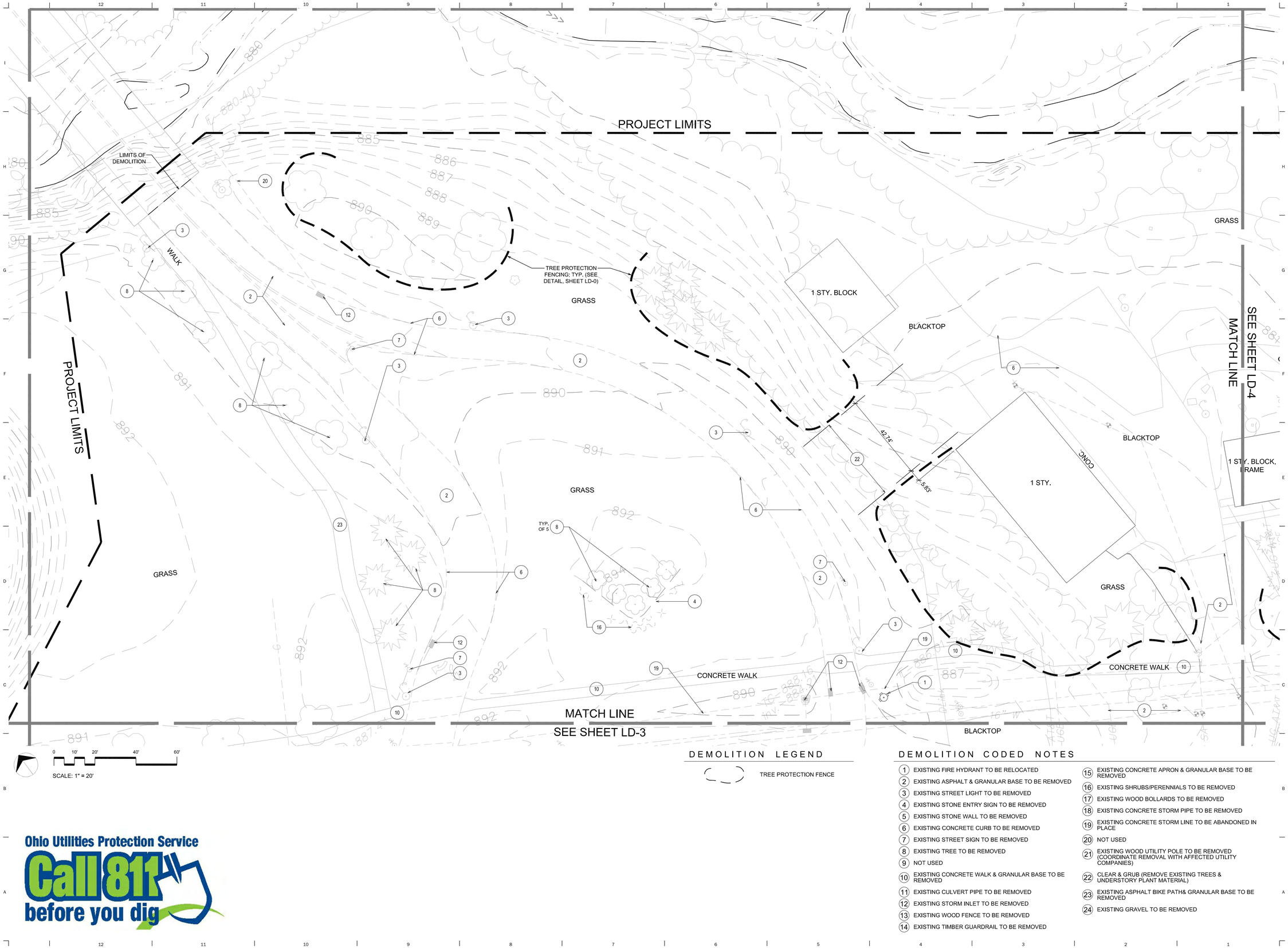


issue date 5.28.2013

project number c12200

sheet name
DEMOLITION PLAN

sheet number
LD-1



DEMOLITION LEGEND

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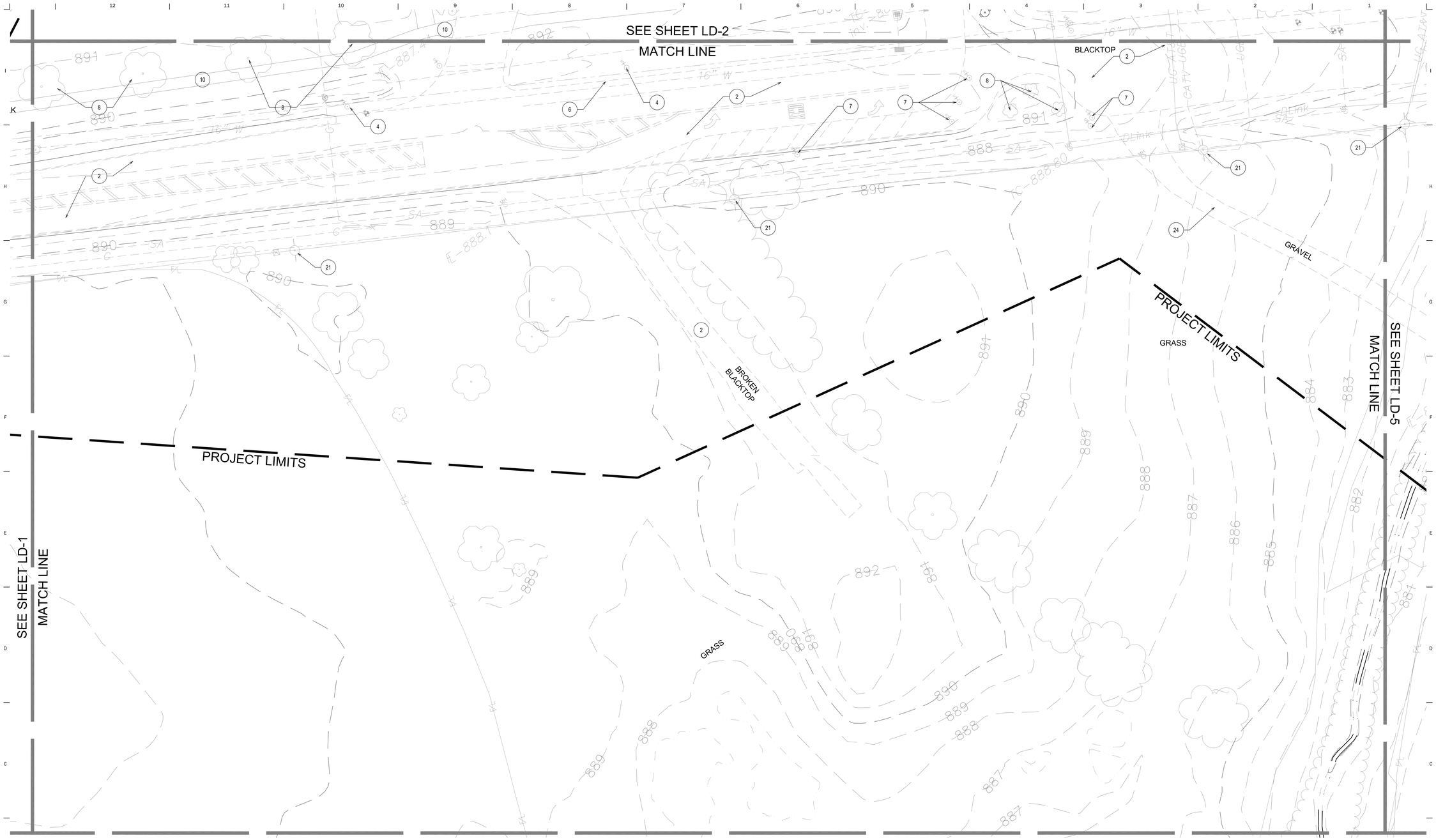
project number c12200

sheet name
DEMOLITION PLAN

sheet number
LD-2



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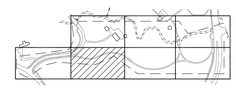

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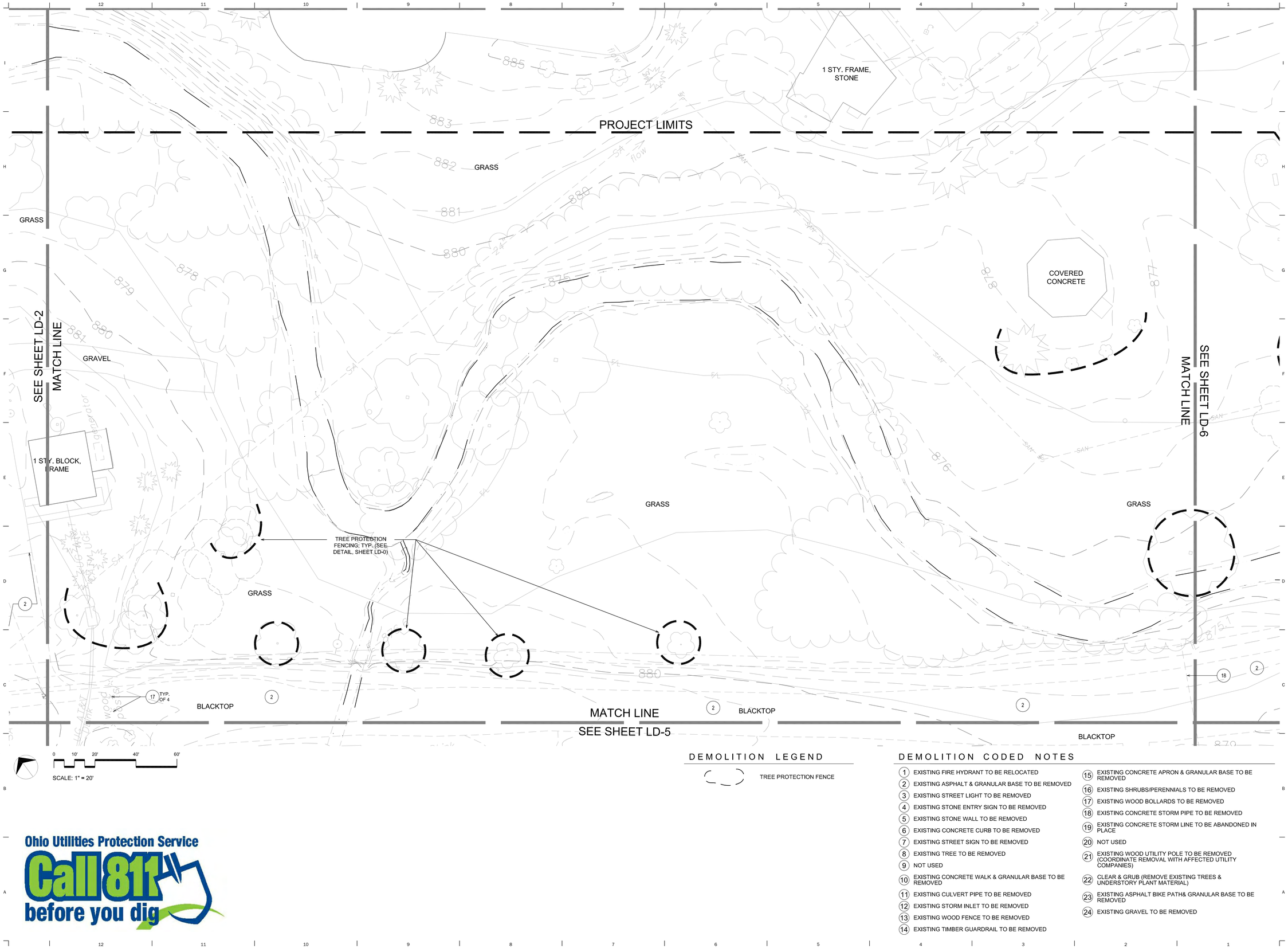
project number c12200

sheet name
DEMOLITION PLAN

sheet number
LD-3



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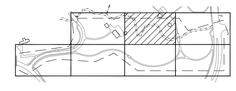

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sheet name
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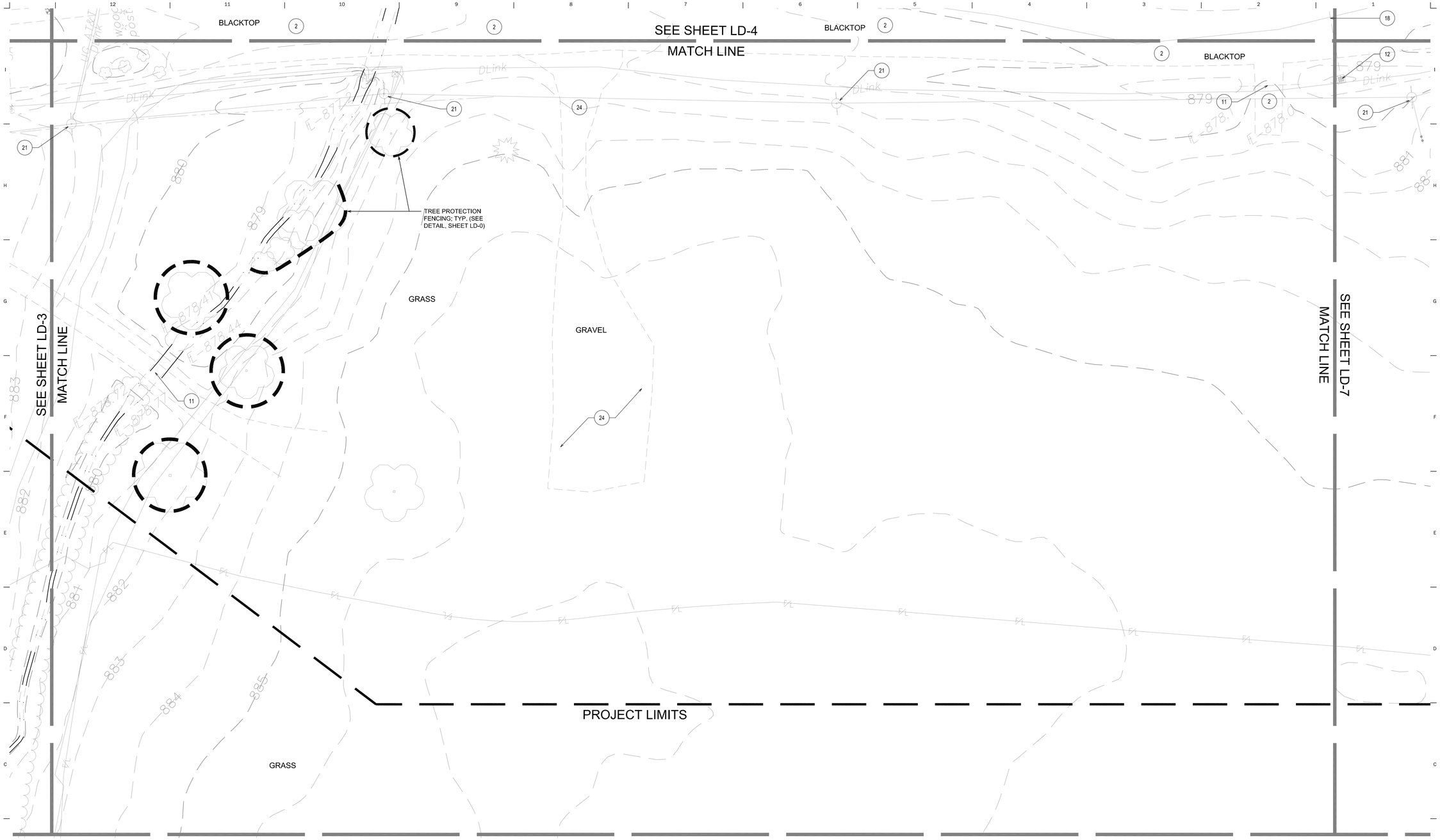
sheet number
LD-4



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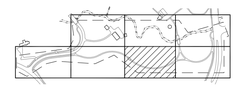

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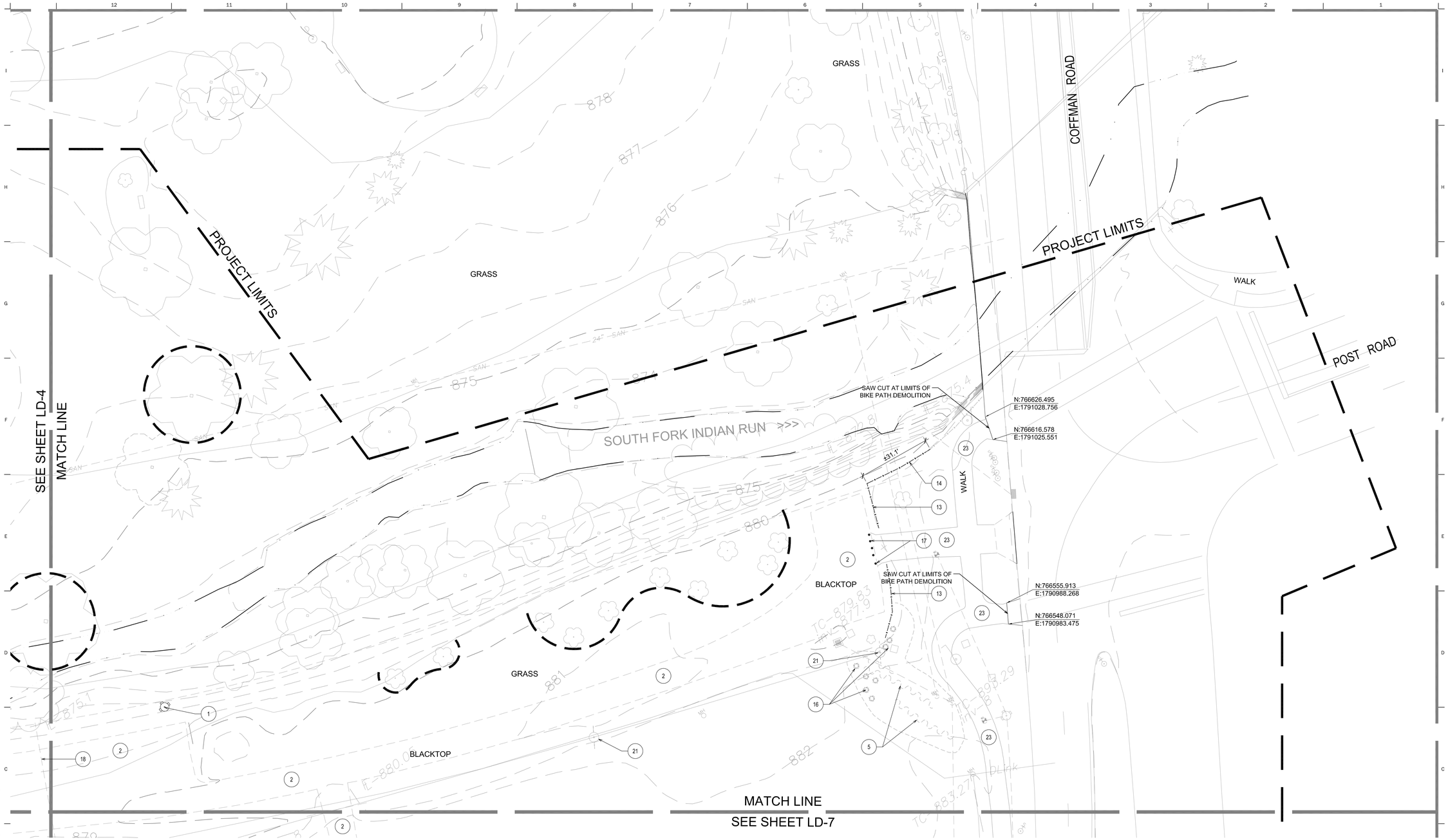
project number c12200

sheet name
DEMOLITION PLAN

sheet number
LD-5



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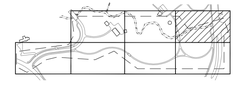

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sheet name
DEMOLITION PLAN

sheet number
LD-6

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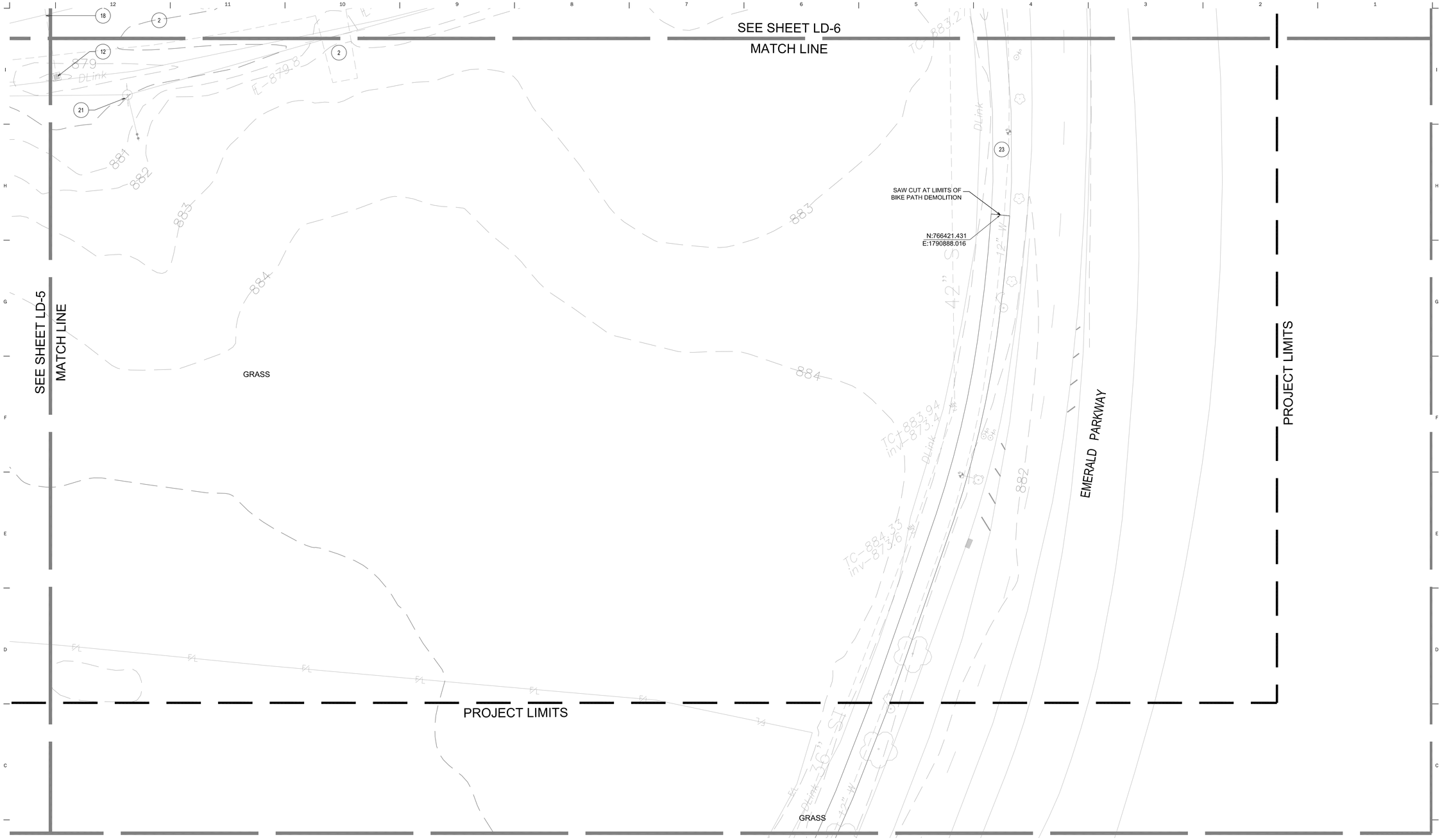

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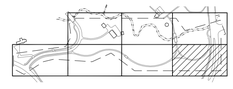

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sheet name
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sheet number
LD-7

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GRADING CODED NOTES

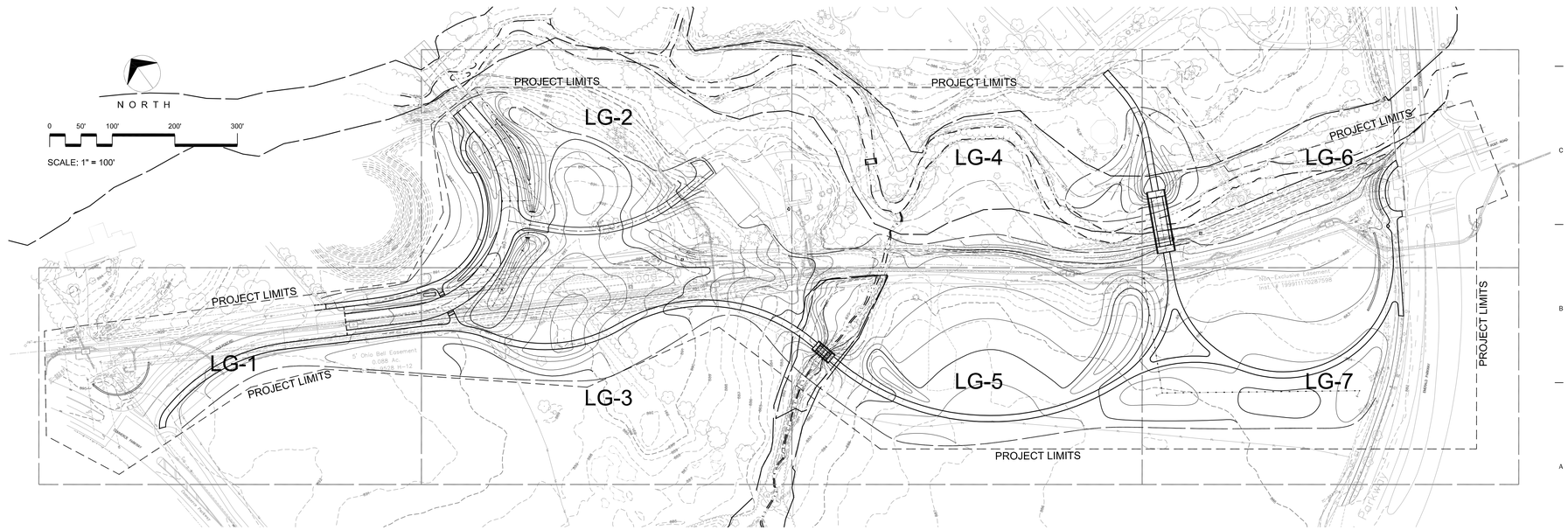
1. 8" DIA ADS N-12 DRAIN LINE
2. 12" DIA. ADS N-12 DRAIN LINE
3. CURB INLET; SEE DETAIL J, SHEET LZ-1.0
4. INLINE DRAIN; SEE DETAIL I, SHEET LZ-1.0
5. NYOPLAST INLET, SEE DETAIL I, SHEET LZ-1.0
6. SOLID COVER AT NYOPLAST
7. PROVIDE FLUSH SURFACE CONDITION AT JUNCTION OF PROPOSED AND EXISTING PAVEMENTS
8. EXISTING HEADWALL TO REMAIN
9. PROVIDE CONNECTION TO EXISTING STORM SYSTEM
10. HEADWALL; SEE DETAIL K, SHEET LZ-1.0
11. ADJUST WATER/GAS VALVE ELEVATION AS REQUIRED
12. ADJUST TOP MANHOLE ELEVATION AS REQUIRED

GRADING LEGEND

(926.10)	EXISTING SPOT ELEVATION.
926.10	PROPOSED SPOT ELEVATION.
DI 926.10 INV 926.10	DRAIN GRATE ELEVATION. STORM DRAIN INVERT ELEVATION
	EXISTING CONTOUR LINE
	PROPOSED CONTOUR LINE
STM	EXISTING STORM LINE
	PROPOSED STORM LINE
	PROPOSED PERFORATED PIPE
	SWALE
	PIPE FLOW
	TOPSOIL STOCKPILE
	GRADING LIMITS

GRADING NOTES

1. CONTRACTOR SHALL VERIFY EXISTING CONDITIONS PRIOR TO COMMENCING WITH WORK. NOTIFY OWNER'S REPRESENTATIVE OF ANY DISCREPANCY BETWEEN THE PLANS AND ACTUAL SITE CONDITIONS. NO WORK SHALL BE DONE IN AREAS WHERE SUCH DISCREPANCIES EXIST.
2. THE CONTRACTOR SHALL COORDINATE ALL WORK AND BE RESPONSIBLE FOR ALL METHODS, MEANS, SEQUENCE, AND PROCEDURES OF THE WORK.
3. DO NOT DISTURB AREAS OUTSIDE OF PROJECT LIMITS.
4. MAXIMUM SLOPES SHALL NOT EXCEED 3:1, UNLESS OTHERWISE INDICATED ON THE PLANS. MAINTAIN POSITIVE DRAINAGE IN ALL AREAS.
5. MAXIMUM LONGITUDINAL (RUNNING) SLOPE IN ALL PROPOSED WALKS IS 5%. MAXIMUM CROSS SLOPE ON ALL PROPOSED WALKS IS 1.5%.
6. PROTECT EXISTING FACILITIES DURING CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGES TO EXISTING IMPROVEMENTS RESULTING FROM CONSTRUCTION ACTIVITIES.
7. LOCATE AND PROTECT ALL EXISTING UTILITIES DURING CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGES TO EXISTING UTILITIES RESULTING FROM CONSTRUCTION ACTIVITIES. CONTACT OHIO UTILITIES PROTECTION SERVICE AT 1-800-362-2764 PRIOR TO EXCAVATION.
8. GRADES SHOWN INDICATE FINISH SURFACE ELEVATIONS. VERIFY DEPTH OF PAVEMENT SECTION PRIOR TO ROUGH GRADING.
9. PROVIDE POSITIVE DRAINAGE FROM ALL PAVEMENT SURFACES TO CURB OR INLETS AS INDICATED (1.5% MINIMUM).
10. PROTECT EXISTING VEGETATION TO REMAIN FROM ANY TYPE OF CONSTRUCTION TRAFFIC OR USE. COORDINATE WITH OWNER'S REPRESENTATIVE AS REQUIRED.
11. REFER SHEET LB-100 FOR STANDARDS AND GENERAL NOTES.
12. FIELD VERIFY INLET/INVERT ELEVATIONS OF STORM STRUCTURES TO REMAIN. NOTIFY LANDSCAPE ARCHITECT IMMEDIATELY OF ANY DISCREPANCY BETWEEN ELEVATIONS LISTED ON THE PLANS AND ACTUAL FIELD CONDITIONS.



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MKSK
LANDSCAPE ARCHITECTURE + URBAN PLANNING

462 SOUTH LUDLOW ALLEY
COLUMBUS, OH 43215
614.621.2796
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client / owner
City of Dublin-Parks & Open Space Dept.
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p 614.410.4700

civil engineer
Eco-Design & Engineering
7700 Wells Rd.
Plain City, OH 43064
p 614.733.0049

utilities/electrical engineer
Burgess & Niple
5085 Reed Rd.
Columbus, OH 43220
p 614.459.7272

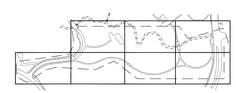
project name
COFFMAN PARK EXPANSION

project address
5200 Emerald Parkway
Dublin, OH 43017

BID SET
Not For Construction

revision	date	issued

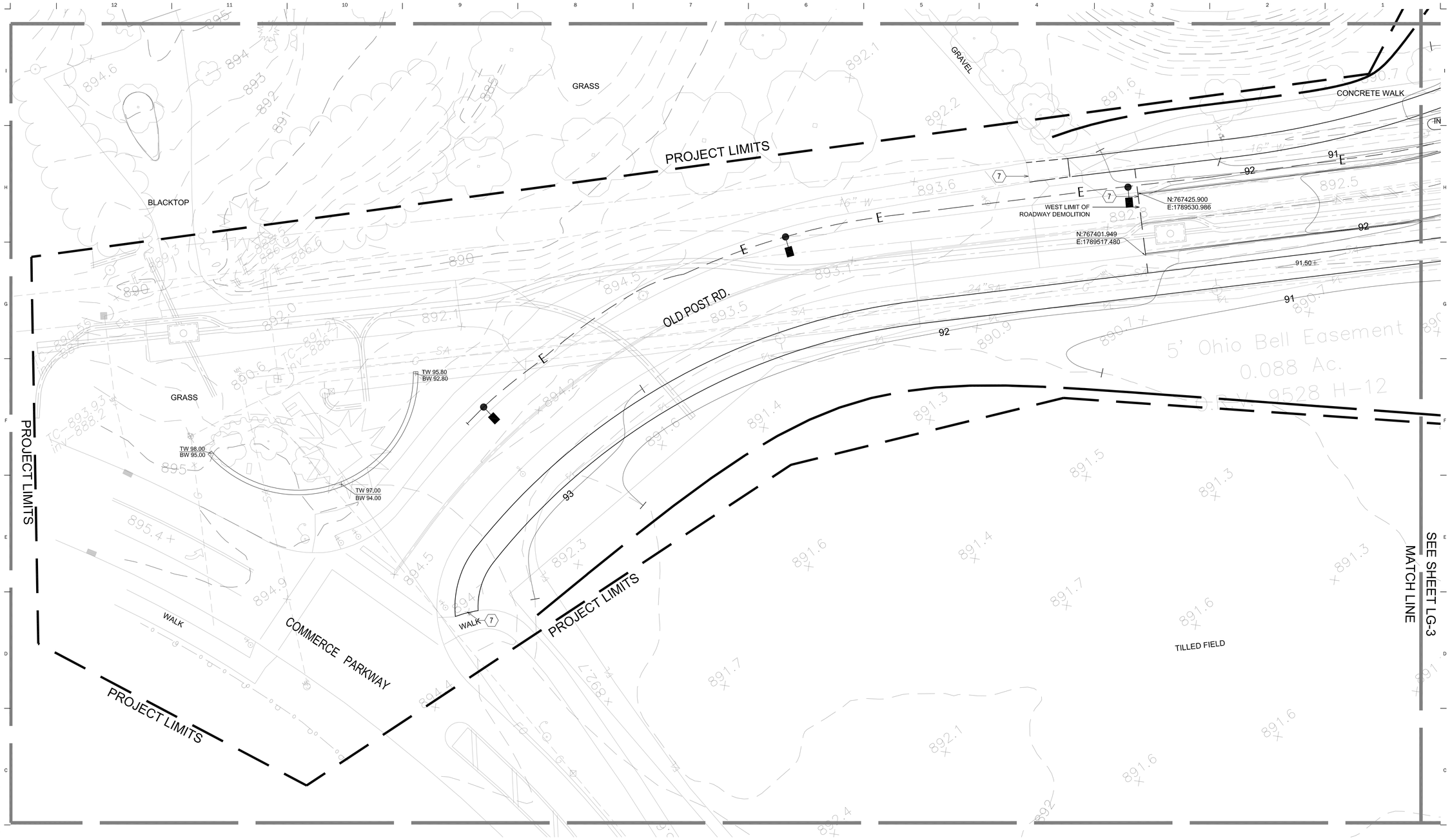
key plan



issue date 5.28.2013
project number c12200

sheet name
OVERALL GRADING PLAN

sheet number
LG-0



0 10' 20' 40' 60'

SCALE: 1" = 20'

GRADING CODED NOTES

1. 8" DIA ADS N-12 DRAIN LINE
2. 12" DIA. ADS N-12 DRAIN LINE
3. CURB INLET; SEE DETAIL J, SHEET LZ-1.0
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7. PROVIDE FLUSH SURFACE CONDITION AT JUNCTION OF PROPOSED AND EXISTING PAVEMENTS
8. EXISTING HEADWALL TO REMAIN
9. PROVIDE CONNECTION TO EXISTING STORM SYSTEM
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GRADING LEGEND

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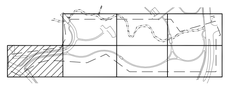
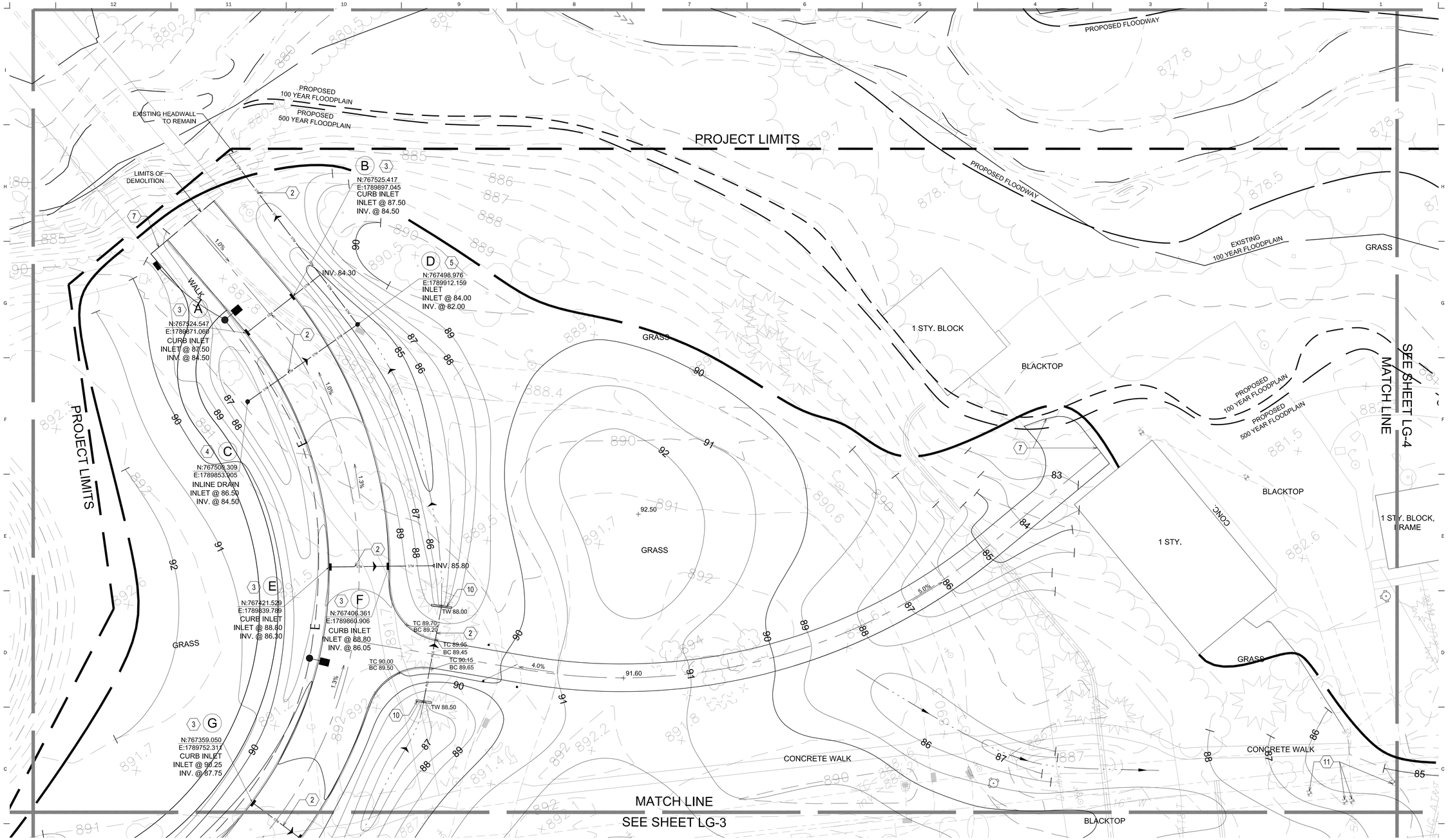


issue date 5.28.2013

project number c12200

sheet name
GRADING PLAN

sheet number
LG-1



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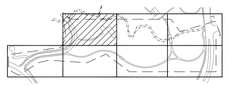

issue date 5.28.2013
project number c12200

sheet name
GRADING PLAN

sheet number
LG-2

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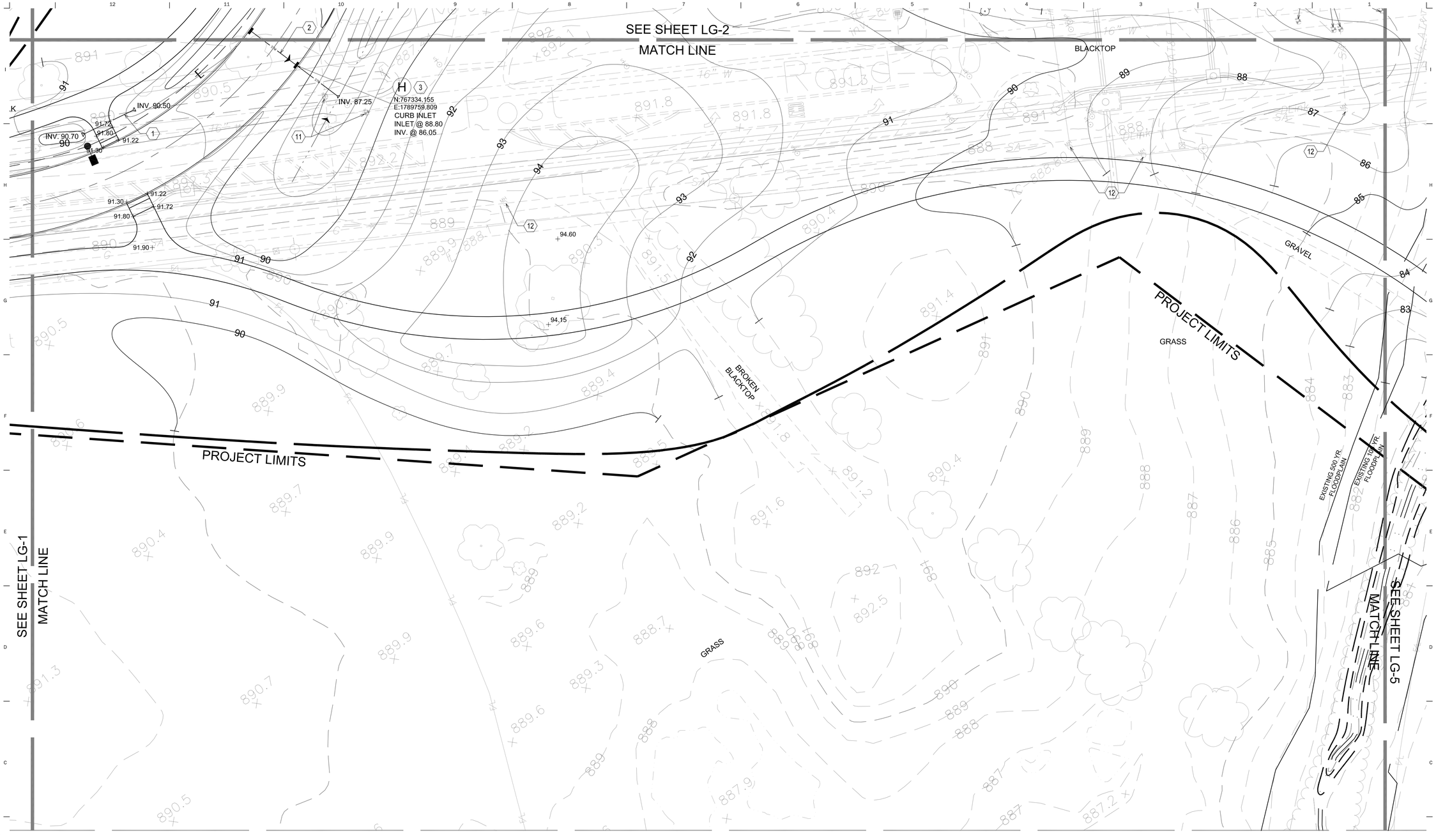

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SCALE: 1" = 20'

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(926.10)	EXISTING SPOT ELEVATION	STM	EXISTING STORM LINE
926.10	PROPOSED SPOT ELEVATION		PROPOSED STORM LINE
DI 926.10 INV 926.10	DRAIN GRATE ELEVATION STORM DRAIN INVERT ELEVATION		PROPOSED PERFORATED PIPE
			SWALE
	EXISTING CONTOUR LINE		PIPE FLOW
	PROPOSED CONTOUR LINE		TOPSOIL STOCKPILE
	GRADING LIMITS		

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utilities/electrical engineer

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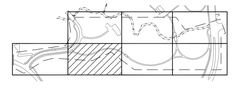
key plan



issue date 5.28.2013

project number c12200

sheet name

GRADING PLAN

sheet number

LG-3

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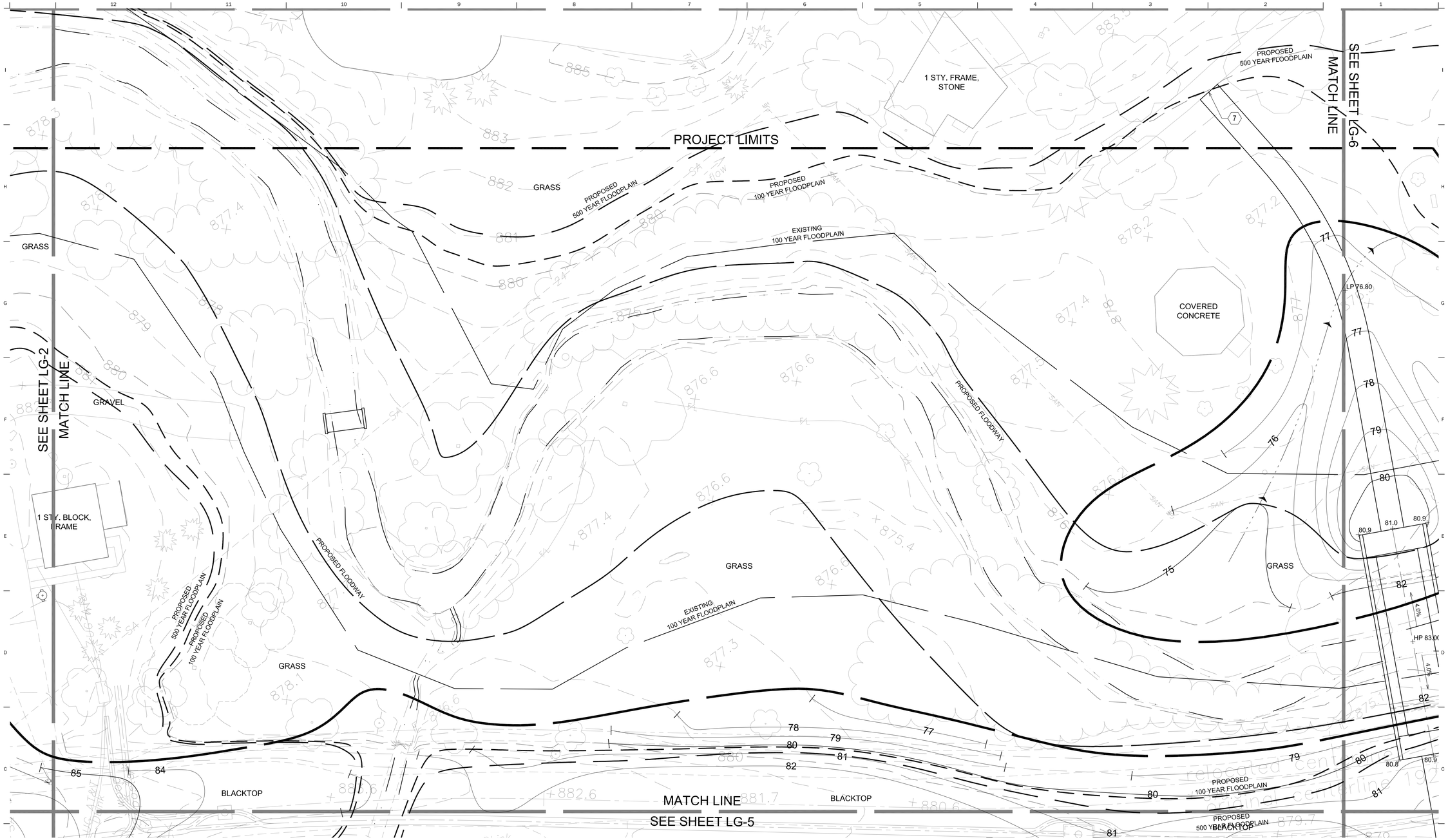

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utilities/electrical engineer
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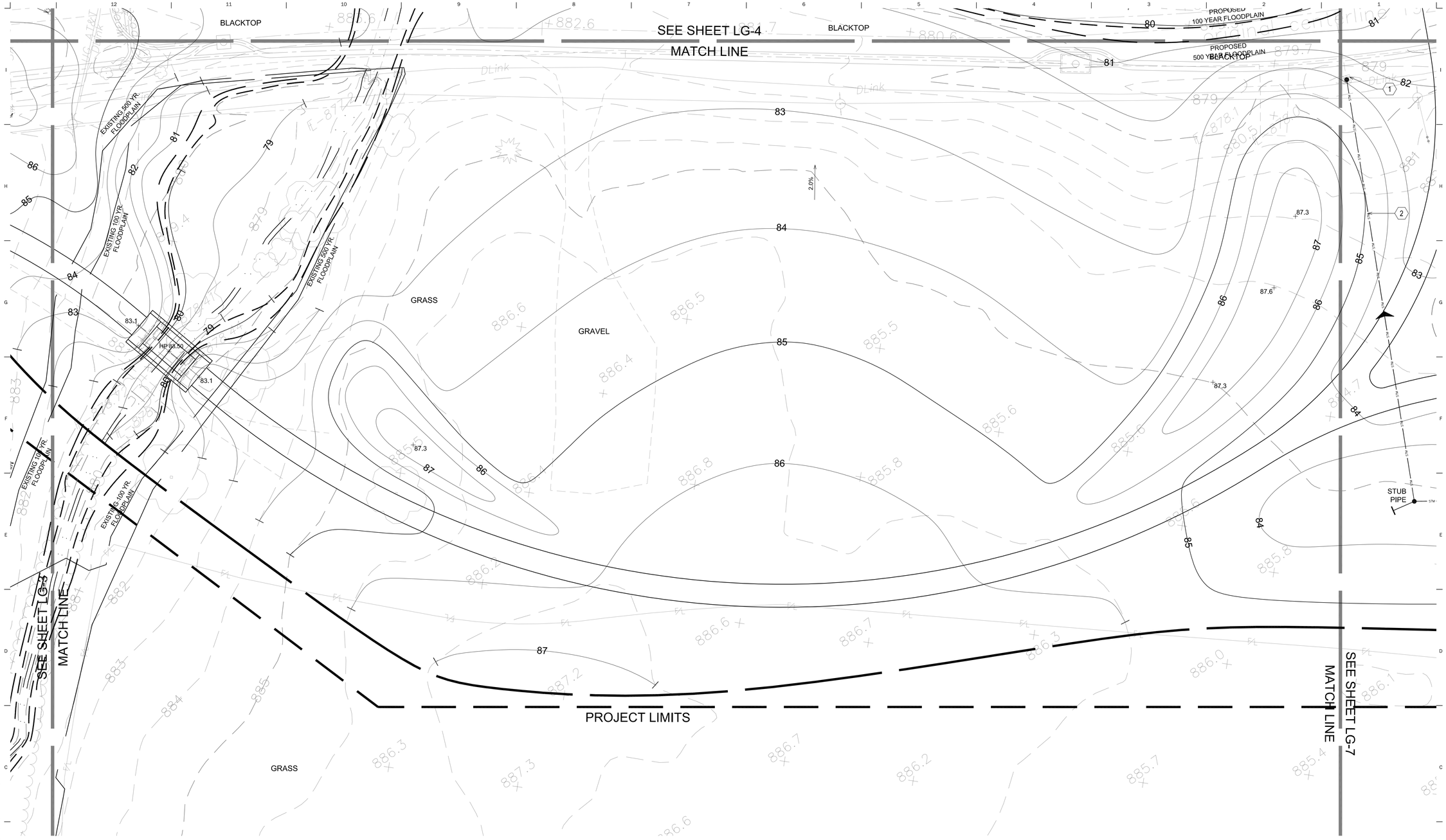
key plan

issue date 5.28.2013
project number c12200

sheet name
GRADING PLAN

sheet number
LG-4



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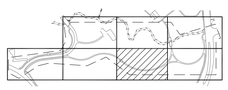

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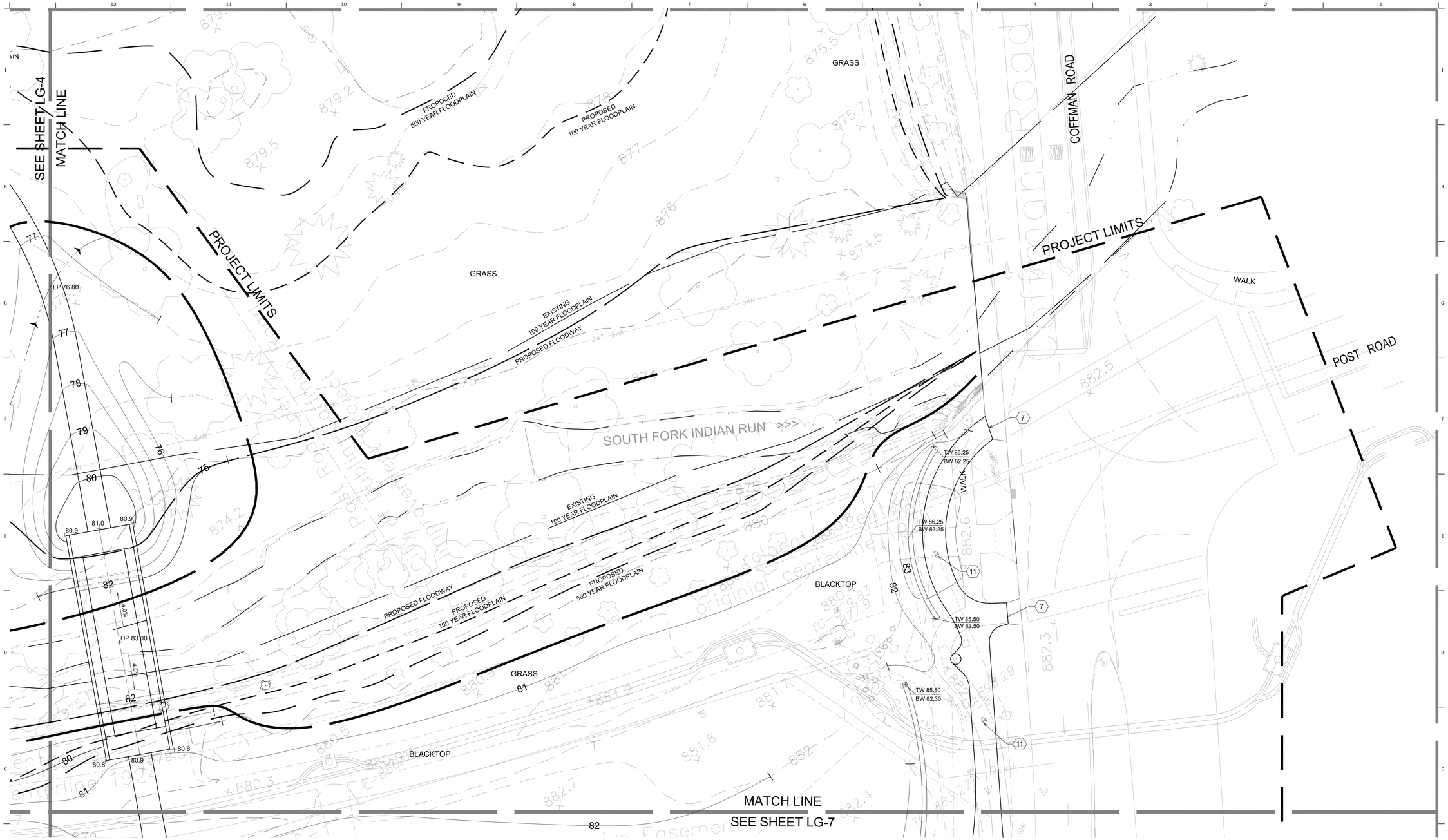
sheet name
GRADING PLAN

sheet number
LG-5



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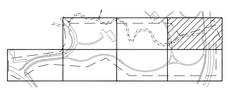

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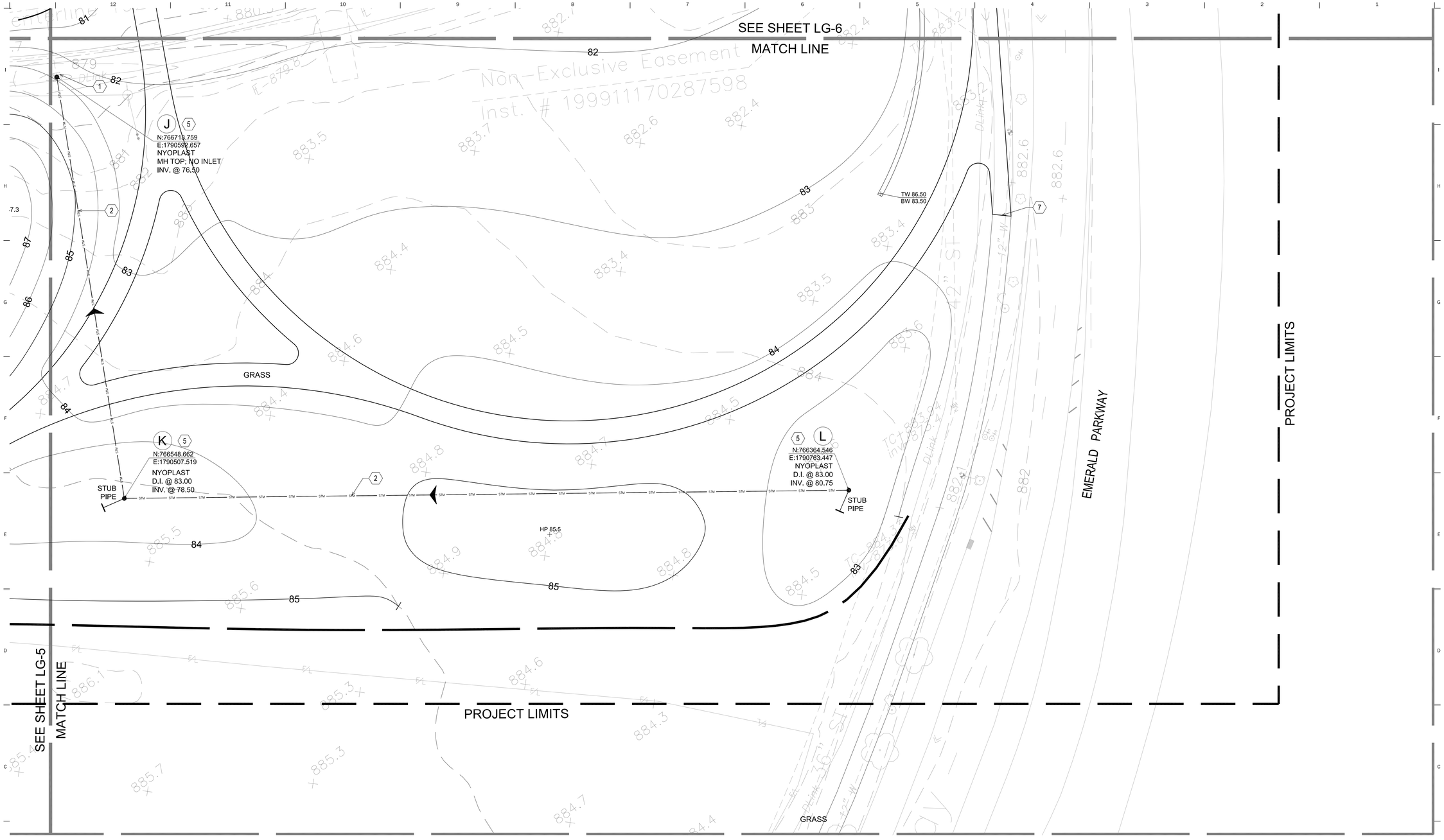
sheet name
GRADING PLAN

sheet number
LG-6



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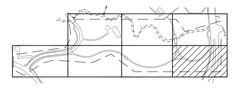


issue date 5.28.2013

project number c12200

sheet name
GRADING PLAN

sheet number
LG-7

LAYOUT NOTES

1. CONTRACTOR SHALL VERIFY EXISTING CONDITIONS PRIOR TO COMMENCING WITH WORK. NOTIFY OWNERS REPRESENTATIVE OF ANY DISCREPANCY BETWEEN THE PLANS AND ACTUAL SITE CONDITIONS. NO WORK SHALL BE DONE IN AREAS WHERE SUCH DISCREPANCIES EXIST.

2. THESE PLANS ASSUME THAT THE LAYOUT AND STAKING OF HARDSCAPE AND LANDSCAPE ELEMENTS WILL BE ACCOMPLISHED USING TOTAL STATION / DIGITAL METHODS. ANY INFORMATION PROVIDED IS INTENDED TO SUPPORT INFORMATION ALREADY CONTAINED IN CAD FILES USED FOR DOCUMENTING LAYOUT AND STAKING. CAD FILES DELINEATING ALL HARDSCAPE AND LANDSCAPE ELEMENTS SHOWN IN THESE PLANS CAN BE PROVIDED TO THE CONTRACTOR UPON REQUEST.

3. DO NOT SCALE DRAWINGS. UTILIZE DIMENSIONS INDICATED ON THE PLANS. THE CONTRACTOR SHALL COORDINATE ALL WORK AND BE RESPONSIBLE FOR ALL METHODS, MEANS, SEQUENCE, AND PROCEDURES OF THE WORK.

4. UNLESS OTHERWISE INDICATED ON THE PLANS, ALL LINE WORK, LAYOUT AND DIMENSIONS ARE PARALLEL AND PERPENDICULAR TO ONE ANOTHER.

5. PROTECT EXISTING FACILITIES DURING CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGES TO EXISTING IMPROVEMENTS RESULTING FROM CONSTRUCTION ACTIVITIES.

6. ALL DIMENSIONS ON THIS DRAWING ARE IN FEET AND INCHES UNLESS OTHERWISE INDICATED ON THE PLANS.

7. PRIOR TO PLACEMENT OF CONCRETE, OWNER'S REPRESENTATIVE SHALL REVIEW FORM WORK AND REINFORCEMENT.

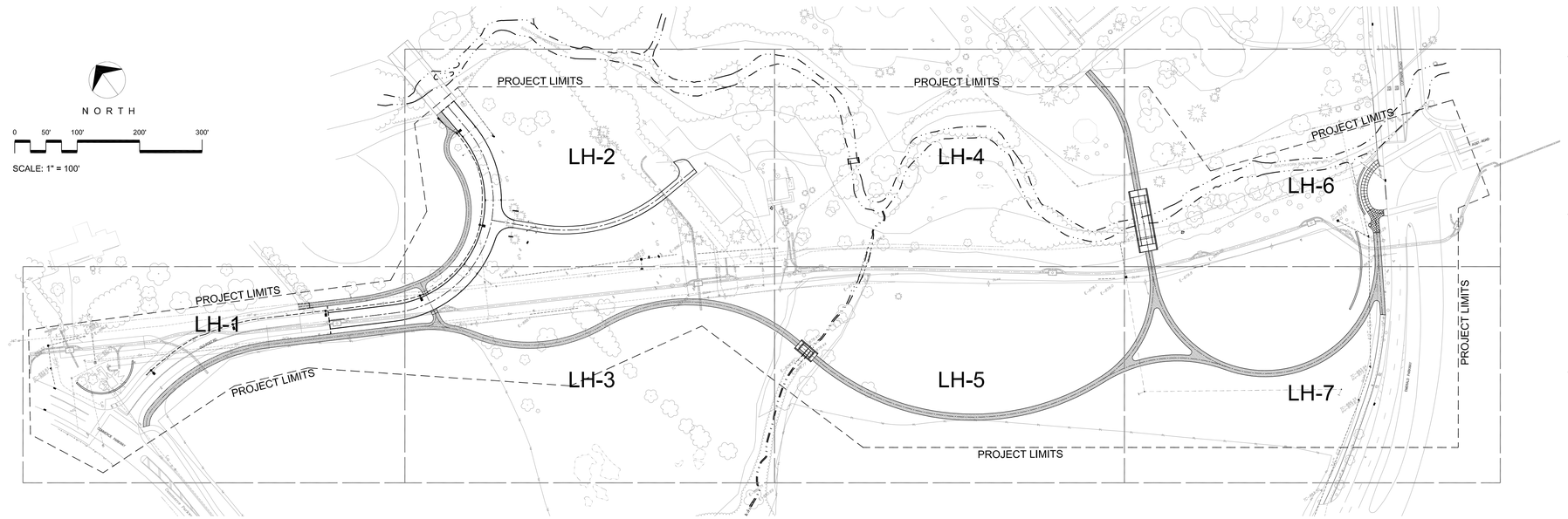
8. LOCATE AND PROTECT ALL EXISTING UTILITIES DURING CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGES TO EXISTING UTILITIES RESULTING FROM CONSTRUCTION ACTIVITIES. CONTACT OHIO UTILITIES PROTECTION SERVICE AT 1-800-362-2764 A MIN. TWO DAYS PRIOR TO EXCAVATION.

9. THE CONTRACTOR SHALL EXERCISE PARTICULAR CARE WHILE WORKING IN THE VICINITY OF ACTIVE UTILITY AND DRAINAGE STRUCTURES. IN THE EVENT THAT ANY EXISTING STRUCTURES OR UTILITIES ARE DAMAGED AND THE SERVICES DISRUPTED, THE LINES SHALL BE IMMEDIATELY REPAIRED AND THE SERVICES RESTORED AS DIRECTED BY THE OWNERS REPRESENTATIVE AT NO COST TO THE OWNER.

10. THE CONTRACTOR SHALL KEEP ALL DRAINAGE FACILITIES AFFECTED BY HIS CONSTRUCTION OPERATIONS CLEAN AND FULLY OPERATIONAL AT ALL TIMES.

11. ALL WALKWAYS SHALL HAVE SMOOTH CONTINUOUS CURVES AS INDICATED ON PLANS.

12. REFER SHEET LB-1 FOR STANDARDS AND GENERAL NOTES.



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COLUMBUS, OH 43215
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client / owner
City of Dublin-Parks & Open Space Dept.
6555 Shier-Rings Rd.
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p 614.410.4700

project name
COFFMAN PARK EXPANSION

project address
5200 Emerald Parkway
Dublin, OH 43017

civil engineer
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p 614.733.0049

utilities/electrical engineer
Burgess & Niple
5085 Reed Rd.
Columbus, OH 43220
p 614.459.7272

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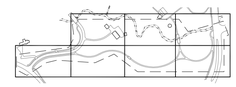
revision	date	issued

key plan



issue date 5.28.2013
project number c12200

sheet name
OVERALL LAYOUT & MATERIALS PLAN

sheet number
LH-0

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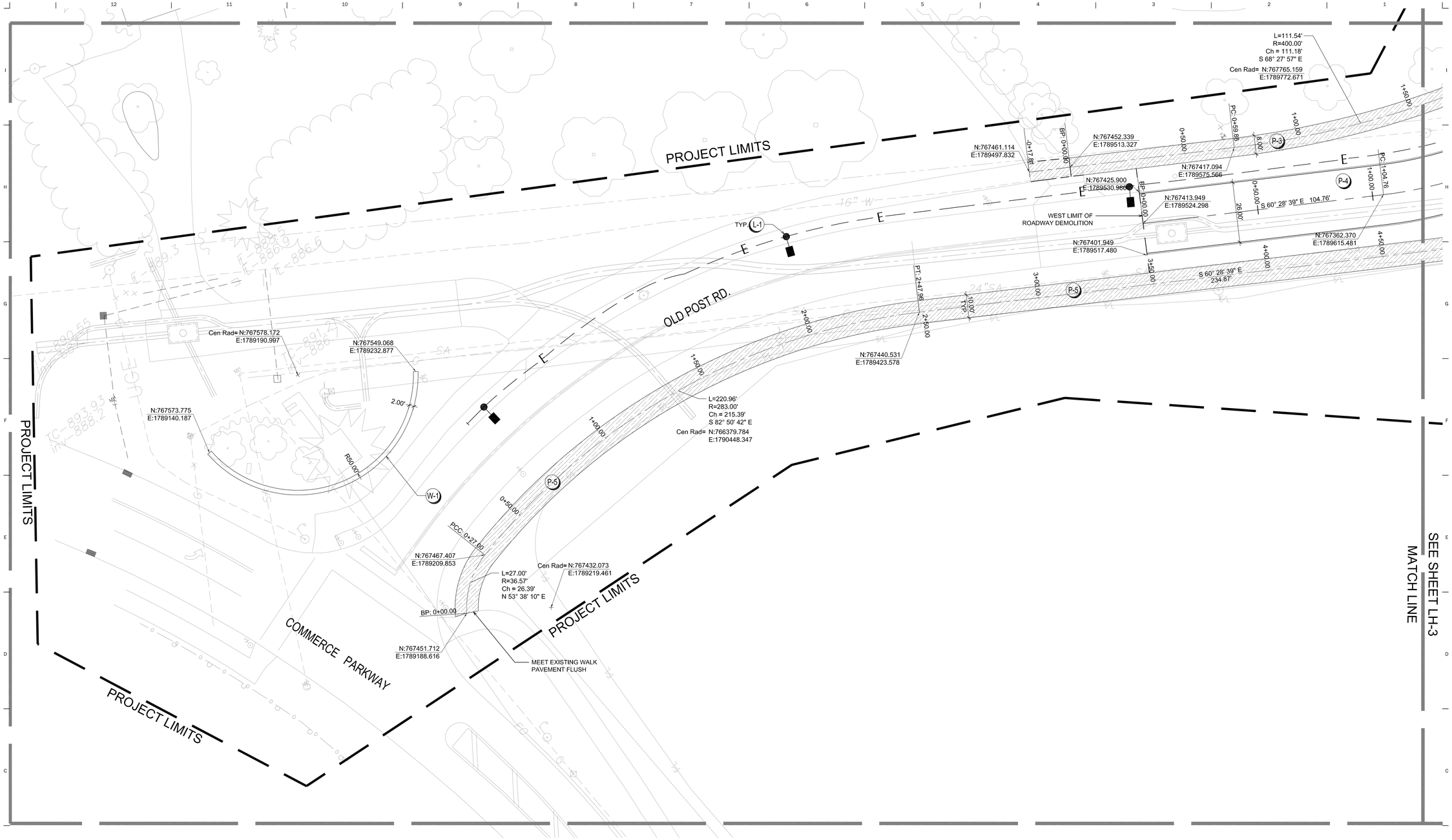

0 10' 20' 40' 60'

SCALE: 1" = 20'

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MATERIALS CODED NOTES & LEGEND

P-1	CONCRETE PAVEMENT	A L2-1.0	D-1	CURB INLET	J L2-1.0
P-2	CONCRETE RAMP	D L2-1.0	D-2	DRAINAGE PIPE - ADS N12	I L2-1.0 / SEE L2-2.0
P-3	ASPHALT BIKE PATH	E L2-1.0	D-3	HEADWALL	K L2-1.0
P-4	ASPHALT ENTRY DRIVE	G L2-1.0	L-1	ROADWAY LIGHT	
P-5	ASPHALT PAVEMENT & PATH	F L2-1.0	S-1	PEDESTRIAN BRIDGE (SEE CIVIL PLANS)	E-F L2-1.1
P-6	CURB REPLACEMENT	L L2-1.0	S-2	TEMPORARY SERVICE BRIDGE	M L2-1.0
F-1	FENCE GATE	C-D L2-1.1	W-1	STONE WALL	N L2-1.0

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issue date 5.28.2013
project number c12200

sheet name
LAYOUT & MATERIALS PLAN

sheet number
LH-1

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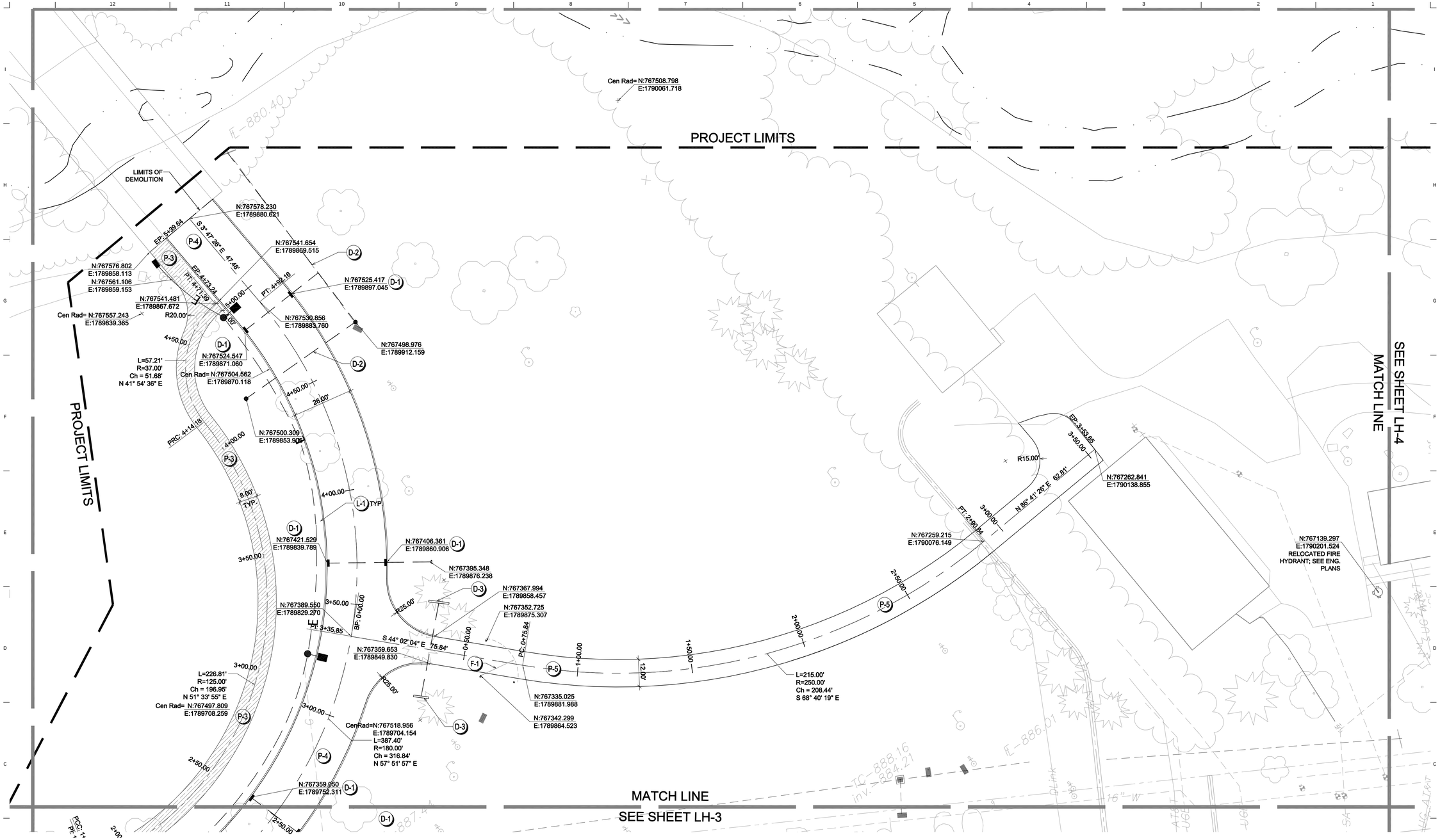

MATERIALS CODED NOTES & LEGEND

	P-1	CONCRETE PAVEMENT	A LX-1.0	D-1 CURB INLET	J LX-1.0
	P-2	CONCRETE RAMP	D LX-1.0	D-2 DRAINAGE PIPE - ADS N12	I LX-1.0 / SEE LX-2.0
	P-3	ASPHALT BIKE PATH	E LX-1.0	D-3 HEADWALL	K LX-1.0
	P-4	ASPHALT ENTRY DRIVE	G LX-1.0	L-1 ROADWAY LIGHT	
	P-5	ASPHALT PAVEMENT & PATH	F LX-1.0	S-1 PEDESTRIAN BRIDGE (SEE CIVIL PLANS)	E-F LX-1.1
	P-6	CURB REPLACEMENT	J LX-1.0	S-2 TEMPORARY SERVICE BRIDGE	M LX-1.0
	F-1	FENCE GATE	C-D LX-1.1	W-1 STONE WALL	N LX-1.0

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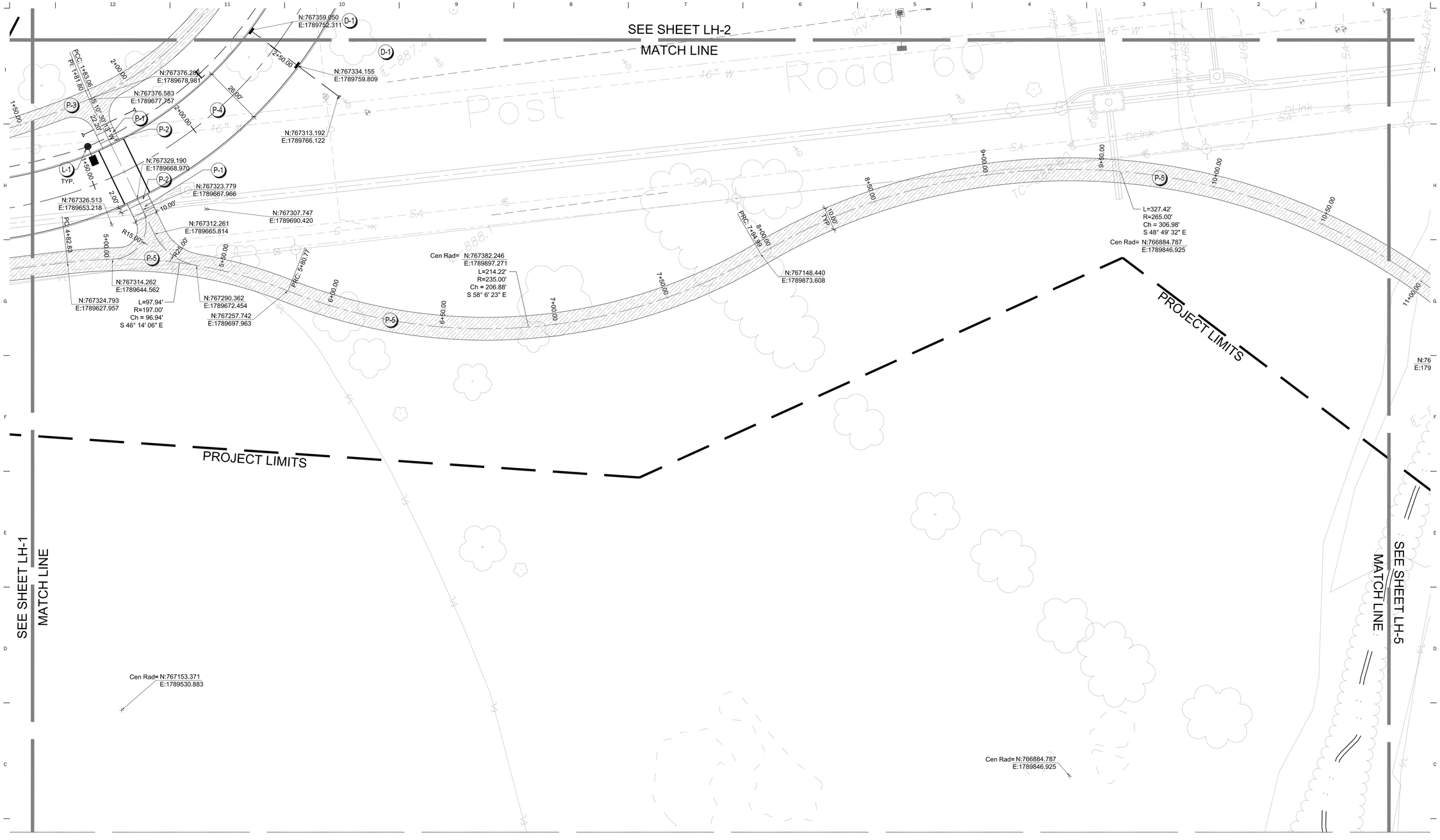
issue date
5.28.2013

project number
c12200

sheet name
LAYOUT & MATERIALS PLAN

sheet number
LH-2



0 10' 20' 40' 60'

SCALE: 1" = 20'

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MATERIALS CODED NOTES & LEGEND

P-1	CONCRETE PAVEMENT	A LZ-1.0	D-1	CURB INLET	J LZ-1.0
P-2	CONCRETE RAMP	D LZ-1.0	D-2	DRAINAGE PIPE - ADS N12	I LZ-1.0 / SEE LZ-2.0
P-3	ASPHALT BIKE PATH	E LZ-1.0	D-3	HEADWALL	K LZ-1.0
P-4	ASPHALT ENTRY DRIVE	G LZ-1.0	L-1	ROADWAY LIGHT	
P-5	ASPHALT PAVEMENT & PATH	F LZ-1.0	S-1	PEDESTRIAN BRIDGE (SEE CIVIL PLANS)	E-F LZ-1.1
P-6	CURB REPLACEMENT	L LZ-1.0	S-2	TEMPORARY SERVICE BRIDGE	M LZ-1.0
F-1	FENCE GATE	C-D LZ-1.1	W-1	STONE WALL	N LZ-1.0

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project number c12200

sheet name
LAYOUT & MATERIALS PLAN

sheet number
LH-3

P:\2012\c12200-Coffman Park Ph I Construction\CAD\Current\c12200 LH lay-mat.dwg May 23, 2013 - 12:04pm-lhwilson

PROJECT LIMITS

SEE SHEET LH-2
MATCH LINE

MATCH LINE
SEE SHEET LH-6

MATCH LINE
SEE SHEET LH-5

N:767015.037
E:1790738.544

N:766975.533
E:1790742.158

L=90.42'
R=165.00'
Ch = 89.29'
N 10° 28' 13" E

N:766887.732
E:1790725.930

Cen Rad= N:766960.502
E:1790577.844

Cen Rad=N:766988.427
E:1790490.451

5+00.00
4+50.00
4+00.00
3+50.00
3+00.00
2+50.00
2+00.00

10.00'
207.33'
N 26° 10' 11" E 228.51'
29.50'

P-5
S-1
S-2

SCALE: 1" = 20'

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MATERIALS CODED NOTES & LEGEND

P-1	CONCRETE PAVEMENT	A LX-11.0	D-1	CURB INLET	J LX-11.0
P-2	CONCRETE RAMP	D LX-11.0	D-2	DRAINAGE PIPE - ADS N12	I LX-11.0 / SEE LX-20.0
P-3	ASPHALT BIKE PATH	E LX-11.0	D-3	HEADWALL	K LX-11.0
P-4	ASPHALT ENTRY DRIVE	G LX-11.0	L-1	ROADWAY LIGHT	
P-5	ASPHALT PAVEMENT & PATH	F LX-11.0	S-1	PEDESTRIAN BRIDGE (SEE CIVIL PLANS)	E-E LX-11.1
P-6	CURB REPLACEMENT	L LX-11.0	S-2	TEMPORARY SERVICE BRIDGE	M LX-11.0
F-1	FENCE GATE	C-C LX-11.1	W-1	STONE WALL	N LX-11.0

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project name
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project address
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civil engineer
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utilities/electrical engineer
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key plan

issue date
5.28.2013

project number
c12200

sheet name
LAYOUT & MATERIALS PLAN

sheet number
LH-4

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SEE SHEET LH-4
MATCH LINE

SEE SHEET LH-3
MATCH LINE

SEE SHEET LH-7
MATCH LINE

PROJECT LIMITS

N:766946.336
E:1790104.678

PT: 11+24.41

15+75.00

16.00'

11+75.00

N:766938.814
E:1790106.474

N:766905.744
E:1790114.371

N:766899.007
E:1790115.980

N:766922.279
E:1790110.422

PC: 11+71.97

11+00.00

12+00.00

12+50.00

13+00.00

10.00' TYP.

13+50.00

14+00.00

14+50.00

15+00.00

15+50.00

16+00.00

R385.00'

16+50.00

N:766604.168
E:1790466.576

N:766604.348
E:1790463.835

0+00.00

PRC: 16+58.94

Cen Rad= N:766988.427
E:1790490.451
L=487.87'
R=385.00'
Ch = 455.88'
S 49° 43' 59" E

Cen Rad= N:766778.831
E:1790477.429

N:766713.759
E:1790592.657

2+00.00

D-2

R175.00'

P-5

L=205.82'
R=175.00'
Ch = 194.16'
N 59° 51' 45" E

1+00.00

70.00'

0+50.00

R225.00'

1+00.00

0 10' 20' 40' 60'

SCALE: 1" = 20'

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MATERIALS CODED NOTES & LEGEND

	P-1	CONCRETE PAVEMENT		D-1	CURB INLET
	P-2	CONCRETE RAMP		D-2	DRAINAGE PIPE - ADS N12
	P-3	ASPHALT BIKE PATH		D-3	HEADWALL
	P-4	ASPHALT ENTRY DRIVE		L-1	ROADWAY LIGHT
	P-5	ASPHALT PAVEMENT & PATH		S-1	PEDESTRIAN BRIDGE (SEE CIVIL PLANS)
	P-6	CURB REPLACEMENT		S-2	TEMPORARY SERVICE BRIDGE
	F-1	FENCE GATE		W-1	STONE WALL

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p 614.733.0049

utilities/electrical engineer
Burgess & Niple
5085 Reed Rd.
Columbus, OH 43220
p 614.459.7272

project name
COFFMAN PARK EXPANSION

project address
5200 Emerald Parkway
Dublin, OH 43017

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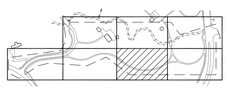
key plan



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project number
c12200

sheet name
LAYOUT & MATERIALS PLAN

sheet number
LH-5

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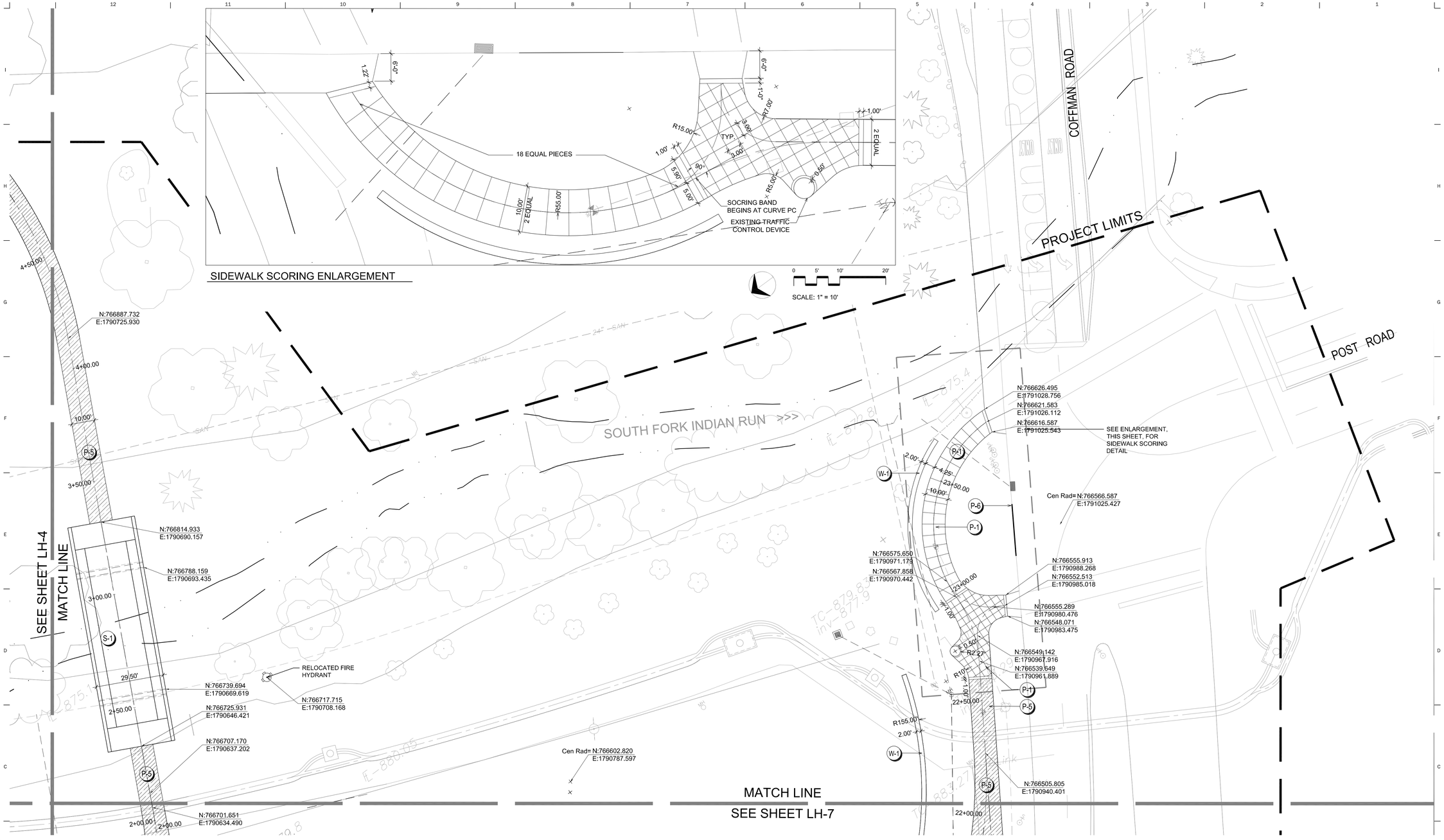
SIDEWALK SCORING ENLARGEMENT

0 5' 10' 20'

SCALE: 1" = 10'



0 10' 20' 40' 60'

SCALE: 1" = 20'

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MATERIALS CODED NOTES & LEGEND

P-1	CONCRETE PAVEMENT	A 12x10	D-1	CURB INLET	J 12x10
P-2	CONCRETE RAMP	D 12x10	D-2	DRAINAGE PIPE - ADS N12	I 12x10 / SEE 12x20
P-3	ASPHALT BIKE PATH	E 12x10	D-3	HEADWALL	K 12x10
P-4	ASPHALT ENTRY DRIVE	G 12x10	L-1	ROADWAY LIGHT	
P-5	ASPHALT PAVEMENT & PATH	F 12x10	S-1	PEDESTRIAN BRIDGE (SEE CIVIL PLANS)	E-F 12x11
P-6	CURB REPLACEMENT	L 12x10	S-2	TEMPORARY SERVICE BRIDGE	M 12x10
F-1	FENCE GATE	C-D 12x11	W-1	STONE WALL	N 12x10

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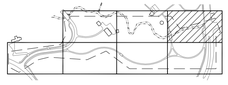

issue date 5.28.2013

project number c12200

sheet name
LAYOUT & MATERIALS PLAN

sheet number
LH-6

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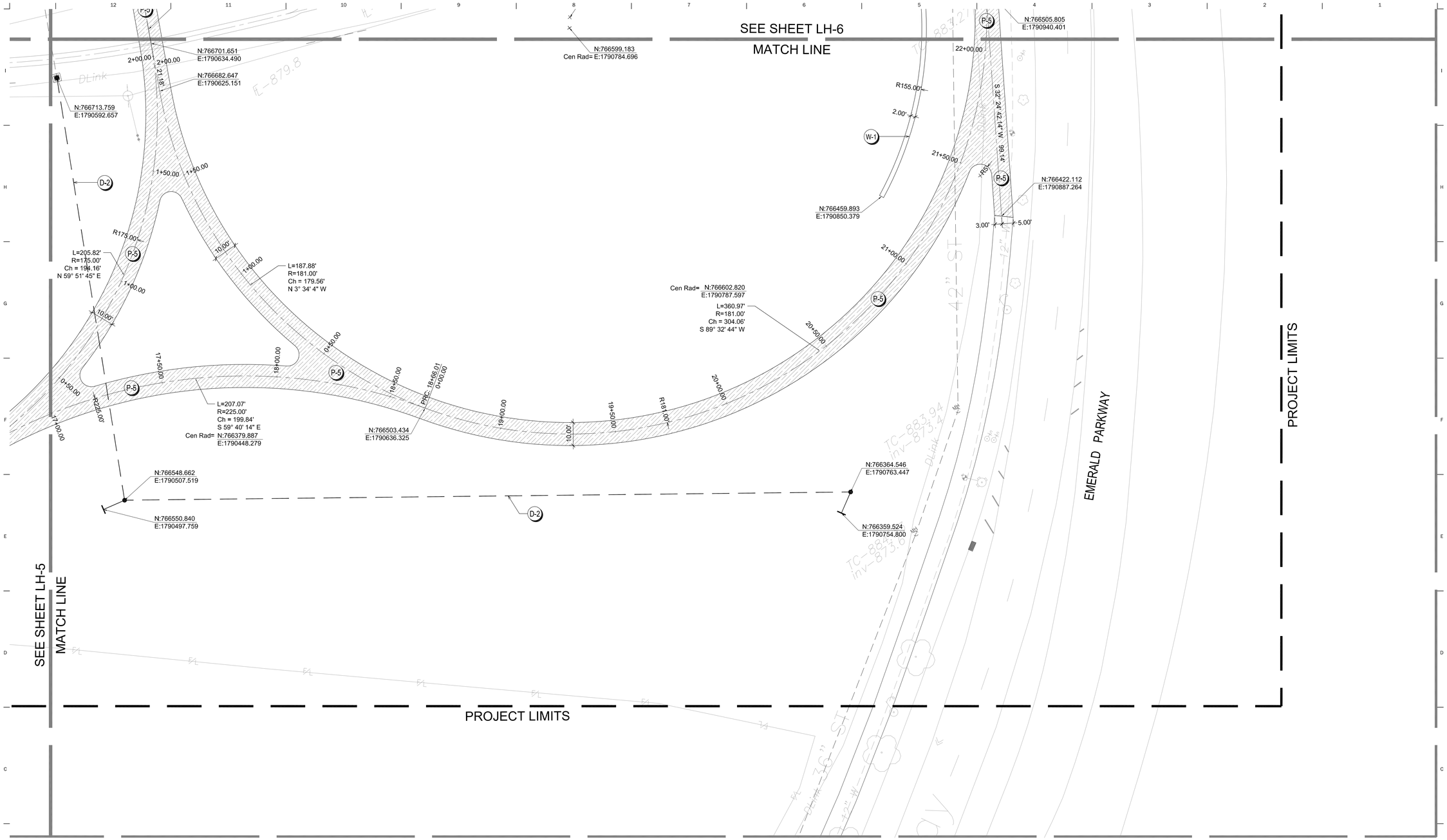

0 10' 20' 40' 60'

SCALE: 1" = 20'

MATERIALS CODED NOTES & LEGEND

P-1	CONCRETE PAVEMENT	A LZ-1.0	D-1	CURB INLET	J LZ-1.0
P-2	CONCRETE RAMP	D LZ-1.0	D-2	DRAINAGE PIPE - ADS N12	I LZ-1.0 SEE LZ-2.0
P-3	ASPHALT BIKE PATH	E LZ-1.0	D-3	HEADWALL	K LZ-1.0
P-4	ASPHALT ENTRY DRIVE	G LZ-1.0	L-1	ROADWAY LIGHT	
P-5	ASPHALT PAVEMENT & PATH	F LZ-1.0	S-1	PEDESTRIAN BRIDGE (SEE CIVIL PLANS)	E-F LZ-1.1
P-6	CURB REPLACEMENT	L LZ-1.0	S-2	TEMPORARY SERVICE BRIDGE	M LZ-1.0
F-1	FENCE GATE	C-D LZ-1.1	W-1	STONE WALL	N LZ-1.0

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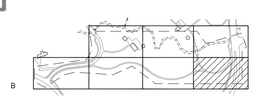


issue date 5.28.2013
project number c12200

sheet name
LAYOUT & MATERIALS PLAN

sheet number
LH-7

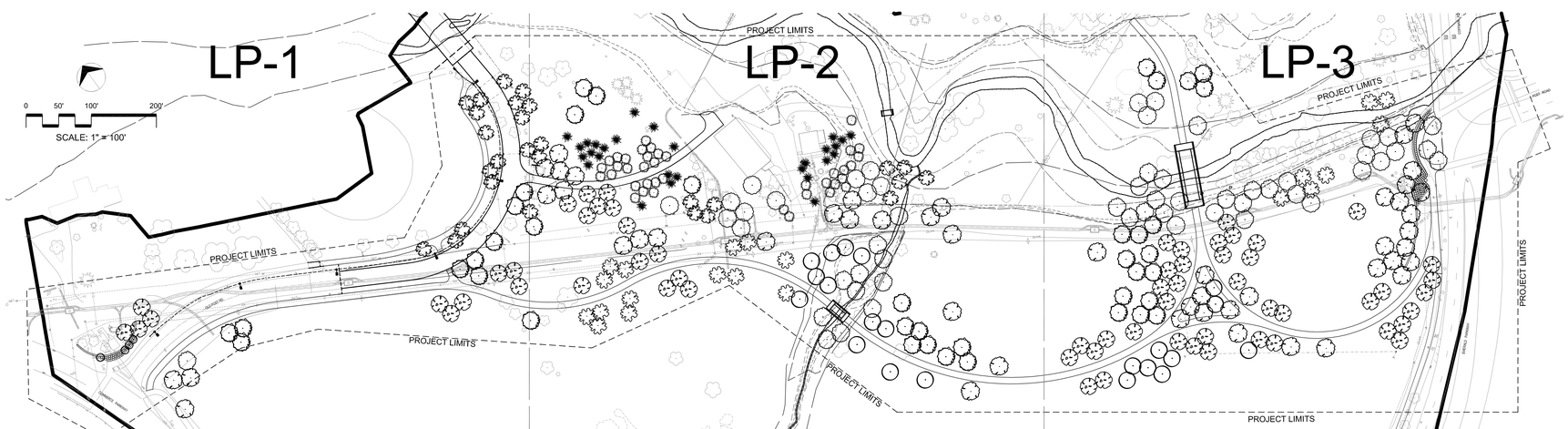
PLANTING NOTES

1. CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING HIMSELF FAMILIAR WITH ALL UNDERGROUND UTILITIES, PIPES AND STRUCTURES. CONTRACTOR SHALL TAKE SOLE RESPONSIBILITY FOR ANY COST INCURRED DUE TO DAMAGE OF SAID UTILITIES.
2. CONTRACTOR SHALL NOT WILLFULLY PROCEED WITH CONSTRUCTION AS DESIGNED WHEN IT IS OBVIOUS THAT OBSTRUCTIONS AND/OR GRADE DIFFERENCES EXIST THAT MAY NOT HAVE BEEN KNOW DURING DESIGN. SUCH CONDITIONS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE AUTHORIZED OWNER'S REPRESENTATIVE. THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ALL NECESSARY REVISIONS DUE TO FAILURE TO GIVE SUCH NOTIFICATION.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY COORDINATION WITH SUBCONTRACTORS AS REQUIRED TO ACCOMPLISH PLANTING OPERATIONS.
4. SEE LANDSCAPE SPECIFICATIONS FOR PLANTING REQUIREMENTS, MATERIALS, EXECUTION, AND MAINTENANCE.
5. IMMEDIATELY UPON AWARD OF BID, CONTRACTOR SHALL SECURE PLANT MATERIAL AS SPECIFIED FROM AVAILABLE SOURCES. IN THE EVENT THAT PLANT MATERIALS ARE NOT AVAILABLE, CONTACT LANDSCAPE ARCHITECT FOR APPROVED SUBSTITUTIONS. NO SUBSTITUTIONS OF PLANT MATERIALS WILL BE ALLOWED WITHOUT PRIOR WRITTEN APPROVAL BY THE LANDSCAPE ARCHITECT.
6. ALL PLANT MATERIAL CONDITION AND LOCATION SHALL BE APPROVED BY THE LANDSCAPE ARCHITECT, PRIOR TO INSTALLATION.
7. CONTRACTOR SHALL NOTIFY OWNER'S REPRESENTATIVE 48 HOURS PRIOR TO COMMENCEMENT OF WORK TO COORDINATE OBSERVATION SCHEDULES.
8. SEE SHEET LZ-2.0 FOR PLANTING DETAILS AND SEE SPECIFICATIONS FOR STAKING AND BACKFILL REQUIREMENTS.
9. TREE LOCATIONS MAY BE ADJUSTED IN THE FIELD TO SUIT SPECIFIC SITE REQUIREMENTS AS DIRECTED BY THE ARCHITECT. STAKE ALL TREE LOCATIONS FOR APPROVAL BY THE ARCHITECT PRIOR TO PLANTING.
10. ALL WORK TO BE PERFORMED BY LICENSED CONTRACTORS AND EXPERIENCED WORKERS.
11. ALL LANDSCAPE AREAS (EXCLUDING TURF) ARE TO BE MULCHED PER SPECIFICATIONS. ALL SOIL FOR LANDSCAPE PLANTING AREAS SHALL BE OBTAINED FROM ON-SITE EXCAVATIONS.
12. THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING TREES AND LANDSCAPING THAT IS DESIGNATED TO REMAIN. THE CONTRACTOR SHALL PROVIDE TEMPORARY FENCING, BARRICADES OR OTHER SUITABLE GUARDS OUTSIDE DRIP LINE (OUTER PERIMETER OF BRANCHES) TO PROTECT FROM DAMAGE TREES AND OTHER PLANTS THAT ARE TO REMAIN. DO NOT STORE CONSTRUCTION MATERIALS WITHIN DRIP LINES OF TREES TO REMAIN. DO NOT PERMIT VEHICLES WITHIN DRIP LINE. RESTRICT FOOT TRAFFIC WITHIN DRIP LINE TO AVOID EXCESSIVE SOIL COMPACTION.

PLANT LIST

CODE	BOT. NAME/COMMON NAME	SIZE	COND.	SPACING
DECIDUOUS TREES				
AC SA	Acer saccharum "Commemoration" COMMEMORATION SUGAR MAPLE	2" CAL.	B+B	AS SHOWN
GY DI	Gymnodadus diolcus KENTUCKY COFFEE TREE	2" CAL.	B+B	AS SHOWN
LI TU	Liriodendron tulipifera TULIPTREE	2" CAL.	B+B	AS SHOWN
NY SY	Nyssa Sylvatica BLACK GUM	2" CAL.	B+B	AS SHOWN
PL EX	Platanus x acerifolia "Morton Circle" EXCLAMATION PLANETREE	2" CAL.	B+B	AS SHOWN
QU BI	Quercus bicolor SWAMP WHITE OAK	2" CAL.	B+B	AS SHOWN
QU RU	Quercus rubra RED OAK	2" CAL.	B+B	AS SHOWN
TA DI	Taxodium distichum BALD CYPRESS	2" CAL.	B+B	AS SHOWN
FLOWERING TREES				
CR VI	Crataegus viridus "Winter King" WINTER KING HAWTHORN	2" CAL.	B+B	AS SHOWN

CODE	BOT. NAME/COMMON NAME	SIZE	COND.	SPACING
EVERGREEN TREES				
PI GL	Picea glauca v. densata BLACK HILLS SPRUCE	6-8' HT.	B+B	AS SHOWN
PI ST	Pinus strobus WHITE PINE	6-8' HT.	B+B	AS SHOWN
SHRUBS				
AE PA	Aesculus parviflora BOTTLEBRUSH BUCKEYE	24" HT.	B+B	4' O.C.
AM ST	Amenlanchier stolonifera RUNNING SERVICEBERRY	24" HT.	B+B	4' O.C.
RH AR	Rhus aromatica FRAGRANT SUMAC		#3 CONT.	3' O.C.
VI PR	Viburnum pragense PRAGUE VIBURNUM	24" HT.	B+B	4' O.C.



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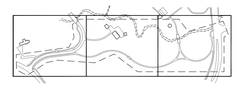
key plan



issue date 03.01.2013
project number C12200

sheet name
OVERALL PLANTING PLAN

sheet number
LP-0

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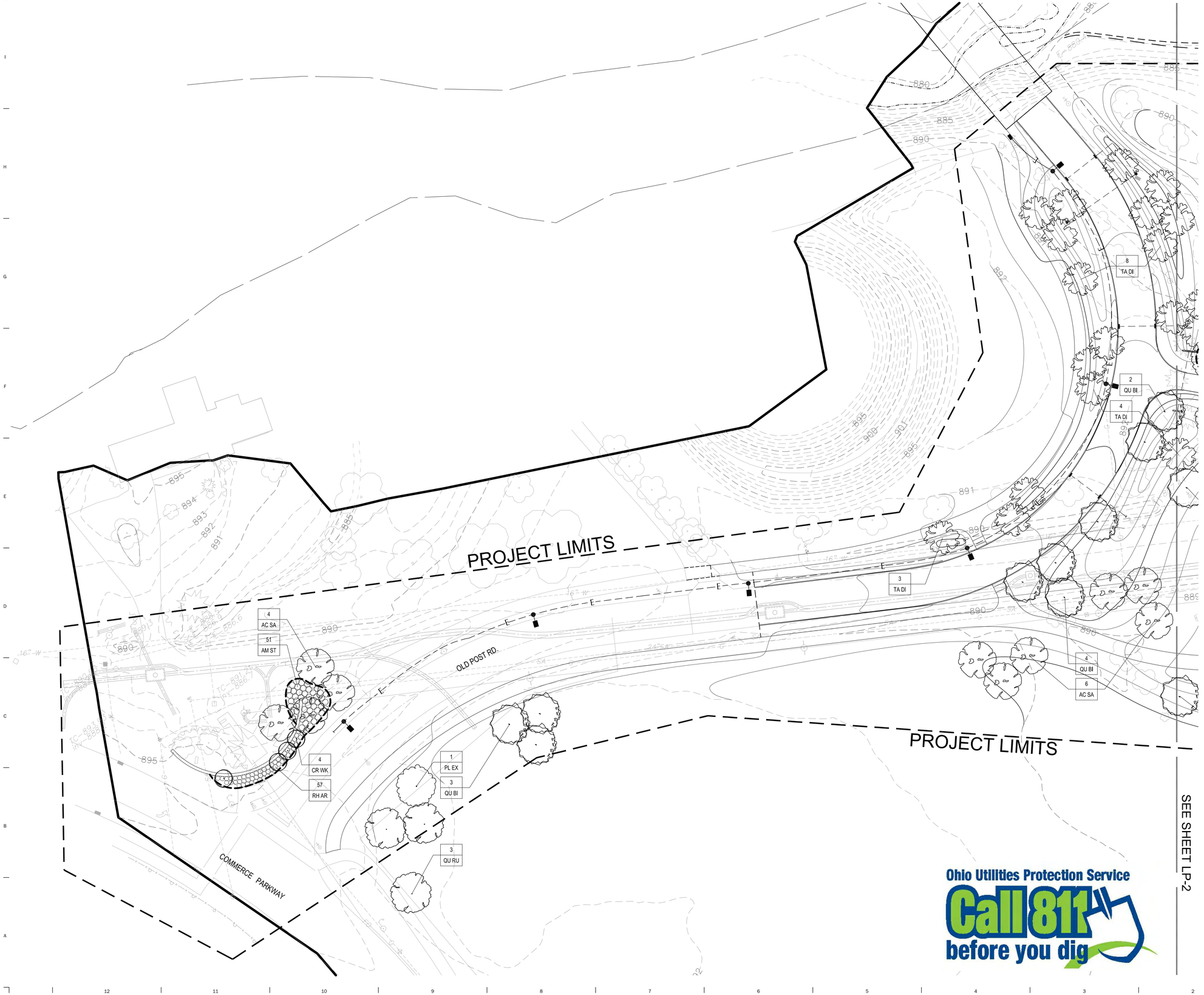

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PLANTING LEGEND

PLANT TAG
1 — QUANTITY
XX XX — SPECIES
ALT. 2 — ALTERNATE

0 15' 30' 60'
SCALE: 1" = 30'

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sheet name
PLANTING PLAN

sheet number
LP-1

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PROJECT LIMITS

3 QU BI
3 TA DI
13 PI GL
127 VI PR
16 PI ST
4 PI GL
1 QU BI
4 TA DI
11 PI GL
4 PI ST
12 PI ST
5 TA DI
5 LI TU
6 QU RU
46 VI PR
1 QU BI
7 PI ST
7 AC SA
3 QU RU
7 LI TU
4 QU RU
6 NY SY
4 QU RU
3 GY DI
1 AC SA
5 AC SA
6 GY DI
1 NY SY
8 QU BI
10 PL EX
2 QU RU
5 GY DI
1 QU BI
5 NY SY

PROJECT LIMITS

SEE SHEET LP-1

SEE SHEET LP-3

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PLANTING LEGEND

PLANT TAG
1 — QUANTITY
XX XX — SPECIES
ALT. 2 — ALTERNATE

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SCALE: 1" = 30'

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issue date 03.01.2013

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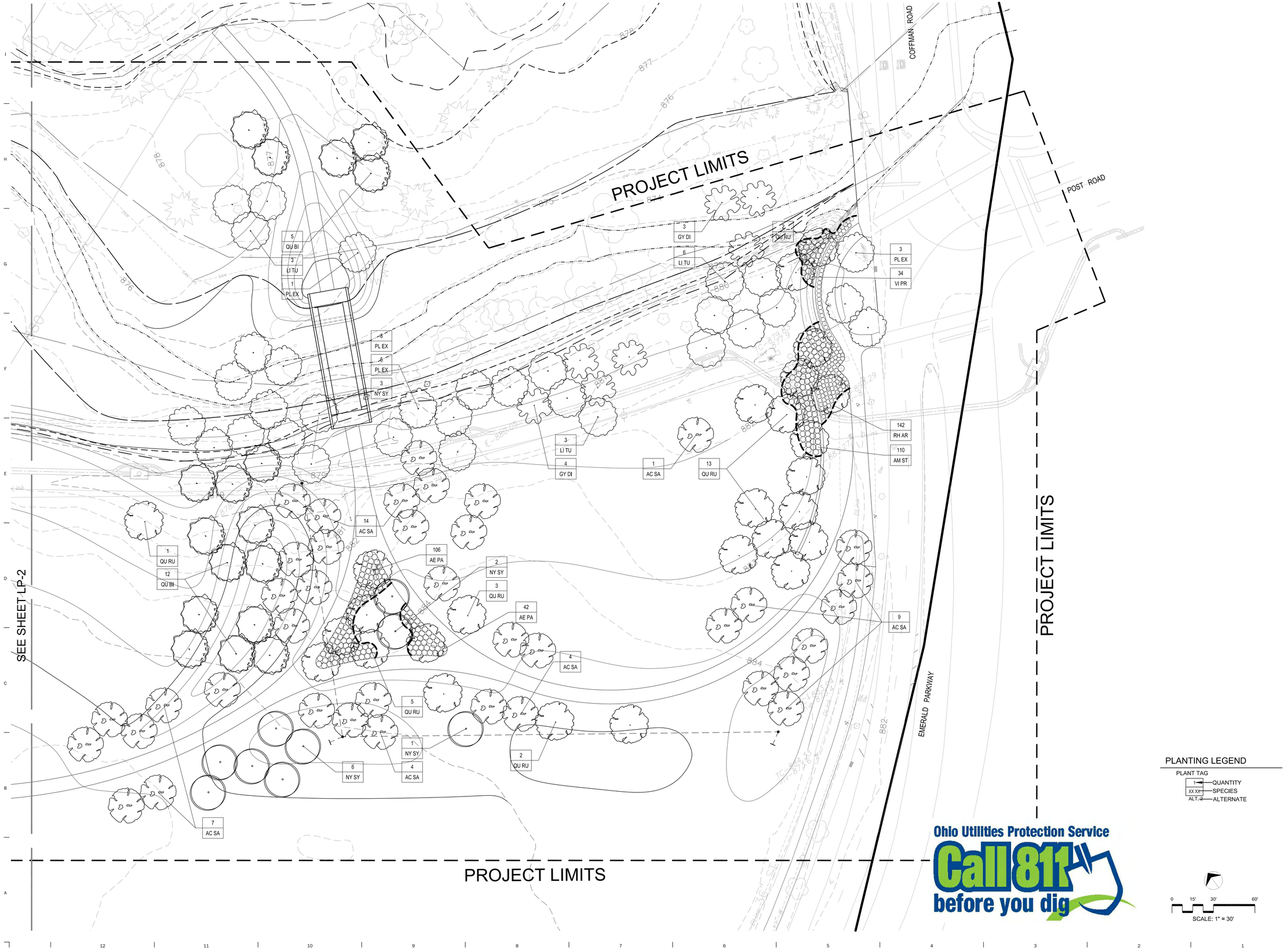
sheet name
PLANTING PLAN

sheet number
LP-2



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0 15' 30' 60'
SCALE: 1" = 30'

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project number C12200

sheet name
PLANTING PLAN

sheet number
LP-3

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SEEDING LEGEND

- SEEDED AREA
- MESIC SEED MIX

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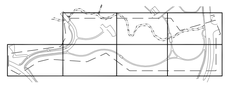
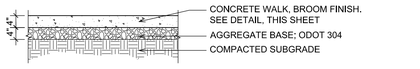


issue date 5.28.2013

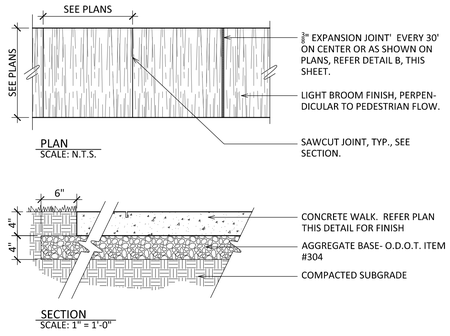
project number c12200

sheet name
SEEDING PLAN

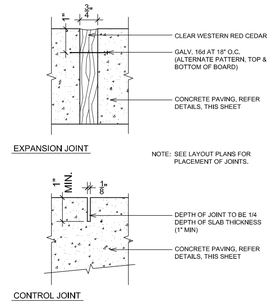
sheet number
LP-4



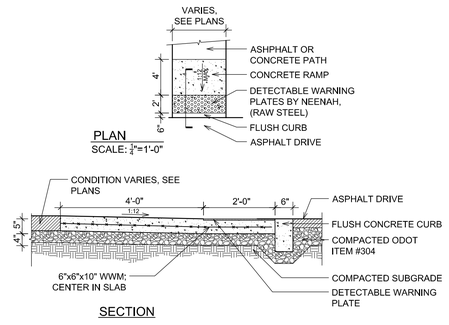
A CONCRETE WALK
SCALE: 1/2" = 1'-0"



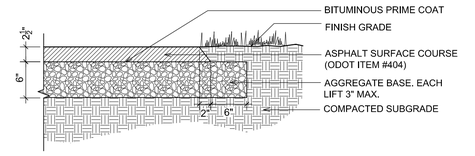
B PEDESTRIAN CONCRETE PAVEMENT
SCALE: 1" = 1'-0"



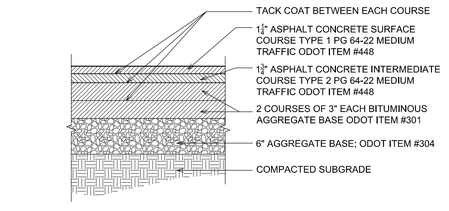
C CONCRETE PAVEMENT JOINTS
SCALE: NTS



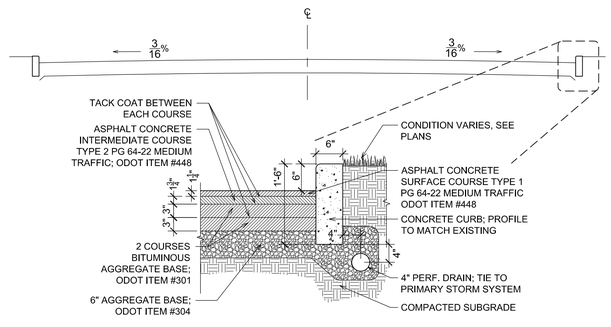
D DETECTABLE WARNING PLATES
SCALE: 1/2" = 1'-0"



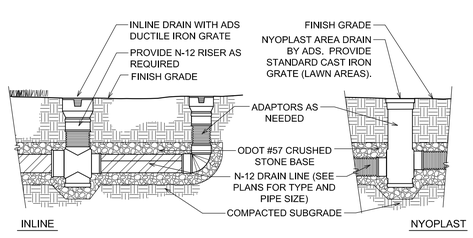
E ASPHALT BIKE PATH
SCALE: 1" = 1'-0"



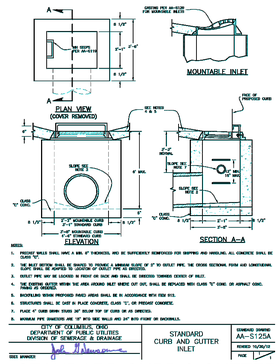
F ASPHALT PAVEMENT & PATH
SCALE: 1" = 1'-0"



G ASPHALT ENTRY DRIVE
SCALE: 3/4" = 1'-0"

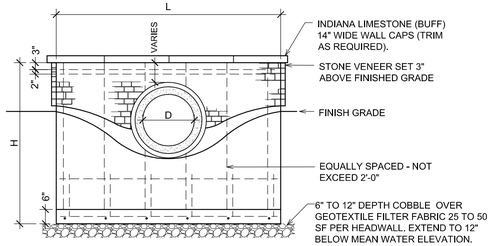


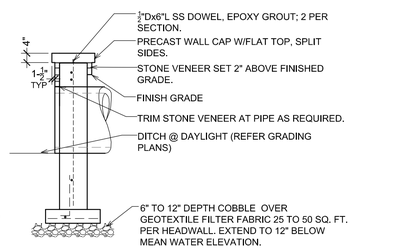
I AREA DRAINS
SCALE: NTS



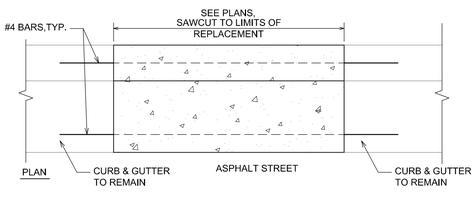
J STANDARD CURB & GUTTER INLET
SCALE: 1/2" = 1'-0"

CIRCULAR				
D	W	H	T	CONC. SQ. YDS.
8"	2'-0"	3'-0"	12"	.20
10"	2'-0"	3'-0"	12"	.20
12"	2'-0"	3'-0"	12"	.20
15"	2'-6"	3'-2"	12"	.25
18"	3'-0"	3'-3"	12"	.31
21"	3'-6"	3'-4"	12"	.37
24"	4'-0"	3'-6"	12"	.43
27"	4'-6"	3'-8"	12"	.49
30"	5'-0"	3'-9"	12"	.56
33"	5'-6"	3'-10"	12"	.62
36"	6'-0"	4'-0"	12"	.69
39"	6'-6"	4'-2"	12"	.77
42"	7'-0"	4'-3"	12"	.84
48"	8'-0"	4'-6"	14"	1.09
54"	9'-3"	4'-9"	14"	1.32
60"	10'-6"	5'-6"	16"	1.93

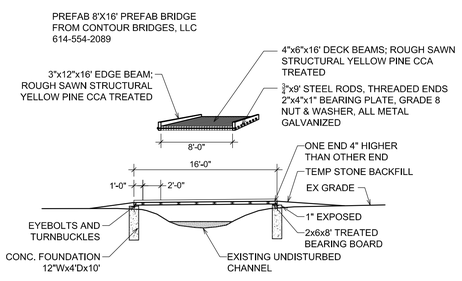




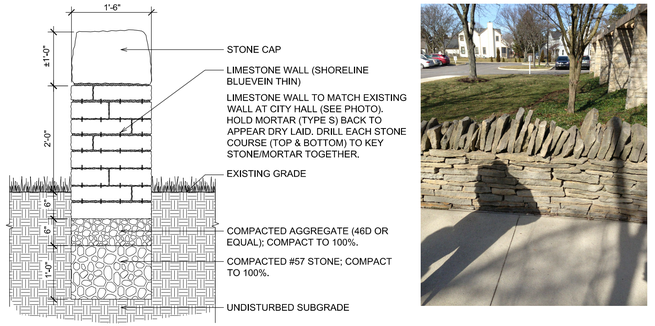
K HEADWALL
SCALE: 1" = 1'-0"



L CURB & GUTTER REPAIR
SCALE: 1" = 1'-0"



M 8' FOOTBRIDGE AND FOOTINGS
SCALE: 1.5" = 1'-0"



N STACKED LIMESTONE WALL
SCALE: 3/4" = 1'-0"

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project number c12200

sheet name
SITE DETAILS

sheet number
LZ-1.0

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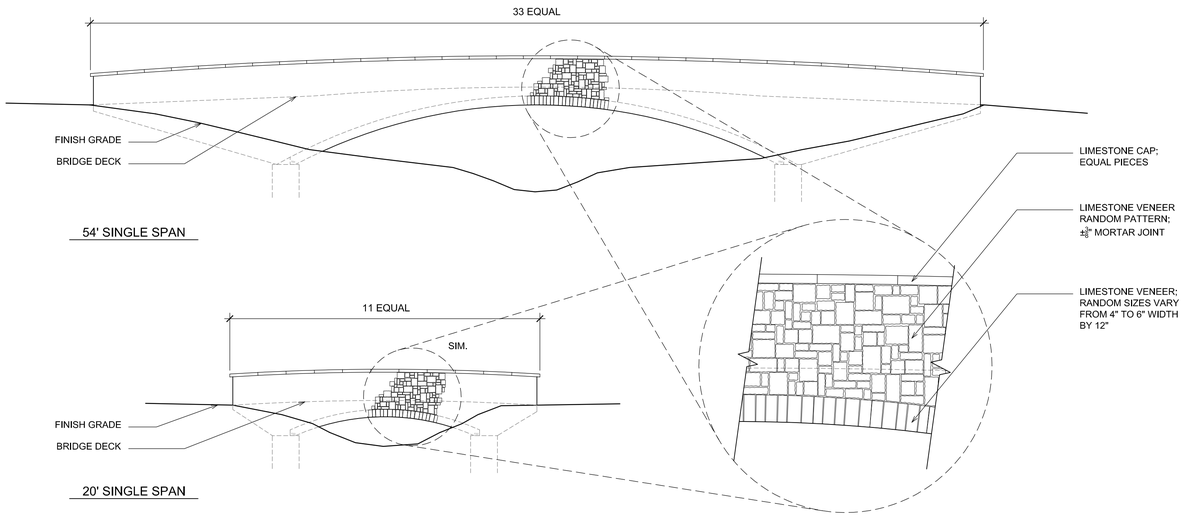
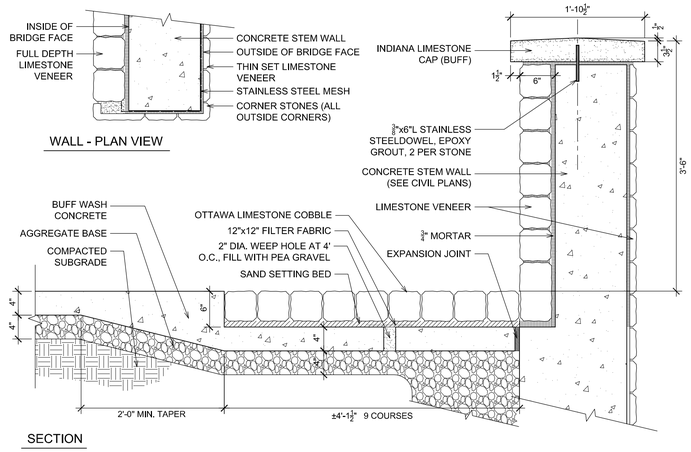
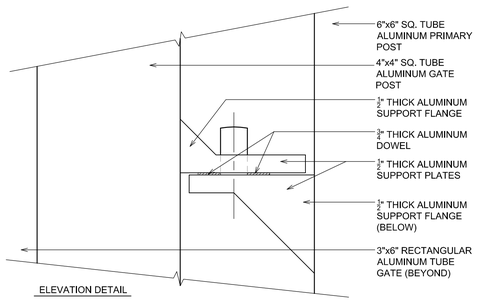
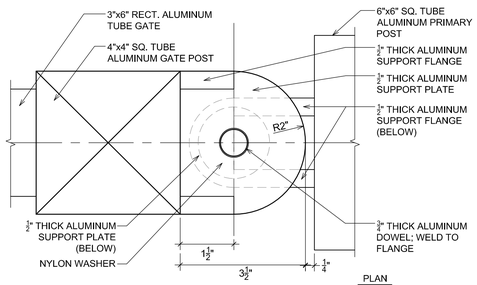


A BRIDGE ELEVATIONS
SCALE: 1½" = 1'-0"

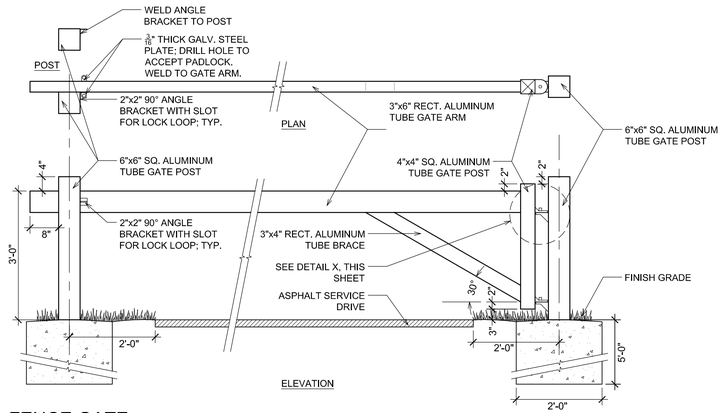


B PARTIAL BRIDGE SECTION
SCALE: 1" = 1'-0"

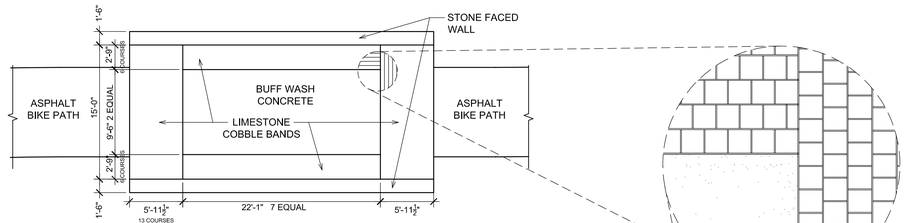




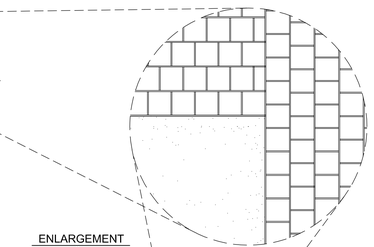
C FENCE GATE POST FASTENER
SCALE: HALF SIZE

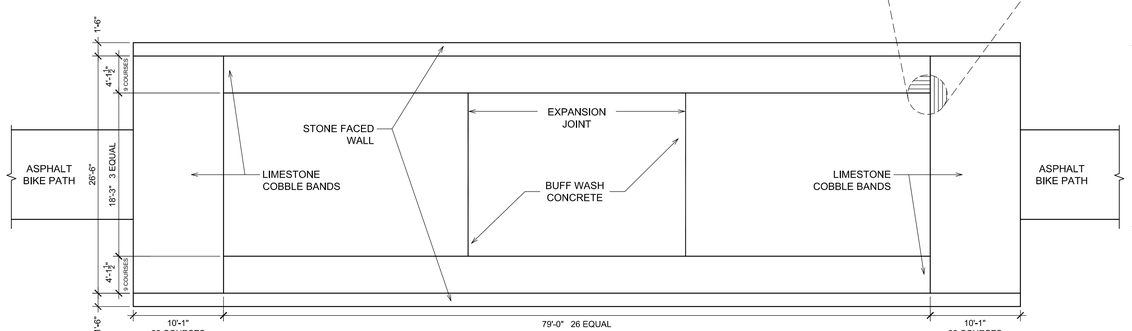


D FENCE GATE
SCALE: 1" = 20'-0"



E SMALL PEDESTRIAN BRIDGE PAVING LAYOUT
SCALE: 1/8" = 1'-0"





F MAIN PEDESTRIAN BRIDGE PAVING LAYOUT
SCALE: 1/8" = 1'-0"

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sheet name
SITE DETAILS

sheet number
LZ-1.1

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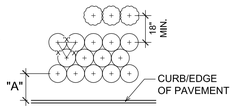
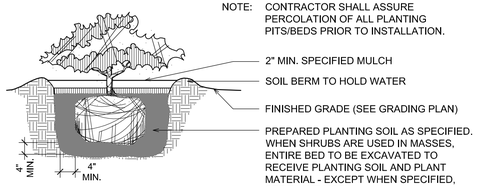
NOTES: - PROVIDE MIN. 18" SPACING BETWEEN DIFFERENT PLANT TYPES.
- ALL SHRUB/GROUNDCOVER MASSES TO USE TRIANGULAR SPACING EXCEPT AS NOTED. REFER TO PLANT LIST FOR INDIVIDUAL PLANT SPACING 'X'.

A = 30" SETBACK FOR SHRUBS
18" SETBACK FOR PERENNIALS
12" SETBACK FOR GROUNDCOVER



NOTE: CONTRACTOR SHALL ASSURE PERCOLATION OF ALL PLANTING PITS/BEDS PRIOR TO INSTALLATION.



A SHRUB PLANTING
SCALE: NTS

NOTES:

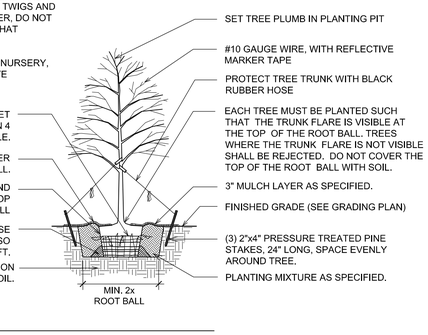
1. CONTRACTOR SHALL ASSURE PERCOLATION OF ALL PLANTING PITS PRIOR TO INSTALLATION.

2. FINAL TREE STAKING PLACEMENT TO BE APPROVED BY OWNER.

3. DO NOT HEAVILY PRUNE THE TREE AT PLANTING. PRUNE ONLY CROSSOVER LIMBS, CO-DOMINANT LEADERS, AND BROKEN OR DEAD BRANCHES. SOME INTERIOR TWIGS AND LATERAL BRANCHES MAY BE PRUNED; HOWEVER, DO NOT REMOVE THE TERMINAL BUDS OF BRANCHES THAT EXTEND TO THE EDGE OF THE CROWN.

4. MARK THE NORTH SIDE OF THE TREE IN THE NURSERY, AND ROTATE TREE TO FACE NORTH AT THE SITE WHENEVER POSSIBLE.

STAKING PLAN



B DECIDUOUS TREE
SCALE: NTS

MKSK
LANDSCAPE ARCHITECTURE + URBAN PLANNING

462 SOUTH LUDLOW ALLEY
COLUMBUS, OH 43215
614.621.2796
MKSKSTUDIOS.COM

client / owner
City of Dublin-Parks & Open Space Dept.
6555 Shier-Rings Rd.
Dublin, OH 43016
p 614.410.4700

project name
COFFMAN PARK EXPANSION

project address
5200 Emerald Parkway
Dublin, OH 43017

civil engineer
Eco-Design & Engineering
7700 Wells Rd.
Plain City, OH 43064
p 614.733.0049

utilities/electrical engineer
Burgess & Niple
5085 Reed Rd.
Columbus, OH 43220
p 614.459.7272

BID SET
Not For Construction

revision	date	issued

key plan

issue date 5.28.2013
project number c12200

sheet name
SITE DETAILS

sheet number
LZ-1.2

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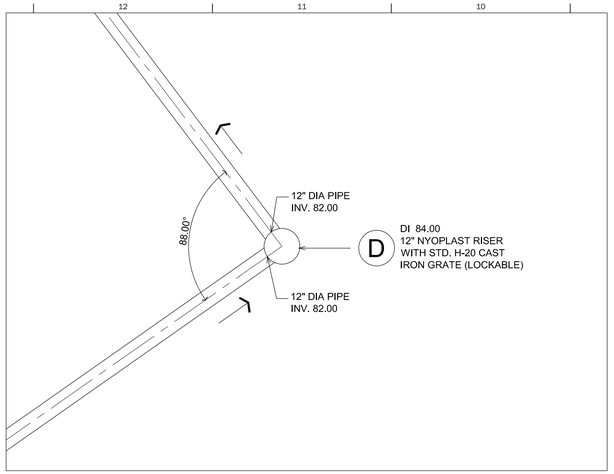

BASIN "D"
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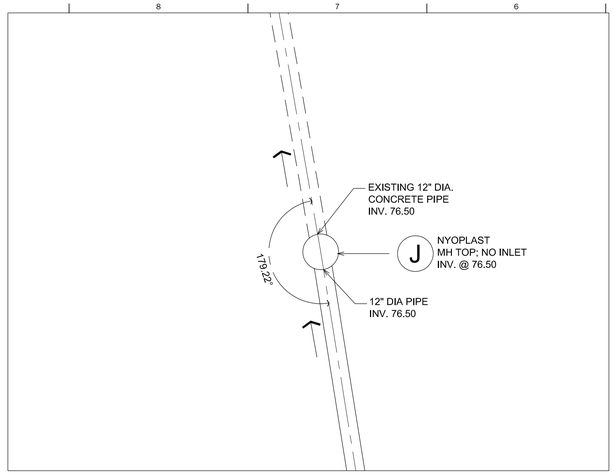

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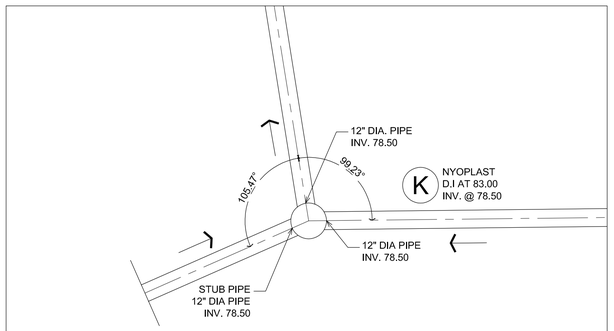

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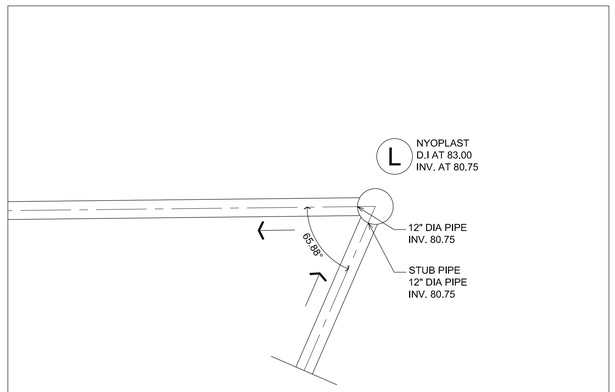

BASIN "L"
SCALE: 1/4" = 1'-0"

MKSK
LANDSCAPE ARCHITECTURE + URBAN PLANNING

462 SOUTH LUDLOW ALLEY
COLUMBUS, OH 43215
614.621.2796
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utilities/electrical engineer
Burgess & Niple
5085 Reed Rd.
Columbus, OH 43220
p 614.459.7272

BID SET
Not For Construction

revision	date	issued

key plan

issue date
5.28.2013

project number
c12200

sheet name
STORM PIPE/BASIN LAYOUTS

sheet number
LZ-2.0

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LEGEND

- PROPOSED UTILITY DUCT
- PROPOSED ELECTRIC MANHOLE (AEP)
- PROPOSED SWITCH (AEP) — SWCH
- PROPOSED TRANSFORMER (AEP)
- PROPOSED COMMUNICATIONS MANHOLE (TWC)
- PROPOSED UTILITY DUCT ARRANGEMENT (SEE TRENCH DETAILS FOR SIZE/NUMBER OF DUCT) — D
- BASELINE/REFERENCE LINE — 2+00
- TREE PROTECTION FENCE

- EXISTING RIGHT-OF-WAY LINE — EX-R/W
- PROPERTY LINE — ℄
- EXISTING EASEMENT
- EXISTING EDGE OF PAVEMENT
- EXISTING CURB AND GUTTER
- EXISTING GUARDRAIL
- EXISTING DITCH OR SWALE
- EXISTING WALK OR BIKEPATH
- EXISTING SIGN
- DECIDUOUS TREE, EVERGREEN TREE — 12" 12"
- TREE TO BE REMOVED
- HEDGE, BUSH
- EXISTING STORM SEWER — STM
- EXISTING STORM MANHOLE, CATCH BASIN, AND CURB INLET
- EXISTING SANITARY SEWER AND MANHOLE, — 24"SAN — S
- EXISTING WATER MAIN, FIRE HYDRANT, AND VALVE — W — 8"W — W
- EXISTING GAS MAIN, VALVE, AND TEST STATION — 6"G
- EXISTING GAS SERVICE — G — GS
- EXISTING TIME WARNER CABLE — TWC
- EXISTING UNDERGROUND ELECTRIC — UGE
- EXISTING UNDERGROUND TELEPHONE, MANHOLE, AND PULL BOX/PEDESTAL — UGT
- EXISTING DUBLINK CONDUIT AND MANHOLE — DUBLINK
- EXISTING POST/UTILITY MARKER
- EXISTING LIGHT POLE
- EXISTING MISCELLANEOUS POLE
- EXISTING TRAFFIC SIGNAL POLE, CABINET, & PULL BOX — TS — TC — TJ
- EXISTING INDEX CONTOUR — 885
- EXISTING INTERMEDIATE CONTOUR — 884
- PROPOSED CONTOUR — 885

BURGESS & NIPLE
5085 REED ROAD
COLUMBUS, OHIO 43220

CITY OF DUBLIN, OHIO
COFFMAN PARK EXPANSION
POST ROAD UTILITY BURIAL
& ROADWAY LIGHTING

NO.	DESCRIPTION REVISIONS	DATE

JOB NO:	PR51132
DATE:	MAY 2013
DESIGNED BY:	MDS
DRAWN BY:	MDS
CHECKED BY:	JED
APPROVED BY:	JLG
SCALE:	NONE

LEGEND

1

SHEET: 1 OF 19

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GENERAL SUMMARY

* DENOTES OHIO DEPARTMENT OF TRANSPORTATION CONSTRUCTION AND MATERIAL SPECIFICATIONS (LATEST EDITION). ALL OTHER ITEMS REFERENCE CITY OF COLUMBUS CONSTRUCTION AND MATERIAL SPECIFICATIONS.

ITEM	DESCRIPTION	TOTAL	UNIT
	SITE WORK		
202	CONCRETE CURB REMOVED AND DISPOSED OF	30	L.F.
202	CONCRETE CURB AND GUTTER REMOVED AND DISPOSED OF	70	L.F.
202	SIDEWALK REMOVED AND DISPOSED OF (CONC.)	350	S.F.
605	4–INCH PIPE UNDERDRAIN (INCLUDING #57 AGGREGATE BASE)	70	L.F.
608	4–INCH CONCRETE WALK	350	S.F.
609	6" CONCRETE COMBINATION CURB AND GUTTER (INCLUDING #57 AGGREGATE BASE)	70	L.F.
609	CONCRETE CURB, STRAIGHT 18" (INCLUDING #57 AGGREGATE BASE)	30	L.F.
616	WATER (FOR DUST CONTROL)	5	M.GALS
623	CONSTRUCTION LAYOUT STAKES	1	LUMP
623	MOBILIZATION	1	LUMP
SPECIAL	ASPHALT BIKE PATH, A.P.P.	60	S.Y.
SPECIAL	TREE PROTECTION FENCE	510	L.F.
	POWER AND COMMUNICATION DUCT		
SPECIAL	TRENCH TYPE 1 – ASPHALT ROADWAY, A.P.P.	220	L.F.
SPECIAL	TRENCH TYPE 2 – NON–PAVED AREA, A.P.P.	3695	L.F.
SPECIAL	4" PVC CONDUIT, SCH 40	11295	L.F.
SPECIAL	5" PVC CONDUIT, TYPE EB	17070	L.F.
SPECIAL	CONCRETE ENCASEMENT, PEA GRAVEL, CLASS "A"	255	C.Y.
SPECIAL	PRECAST CONCRETE ELECTRIC MANHOLE (AEP)	6	EACH
SPECIAL	3–PHASE TRANSFORMER PAD–CONCRETE (AEP)	1	EACH
SPECIAL	FIBERGLASS SWITCH PAD INSTALLATION (AEP)	2	EACH
SPECIAL	PRECAST CONCRETE COMMUNICATIONS MANHOLE (TWC)	5	EACH
	STREET LIGHTING		
625	CONNECTOR KIT, TYPE II	6	EACH
625	CONNECTOR KIT, TYPE III	6	EACH
625	CABLE SPLICE KITS	3	EACH
625	LIGHT POLE, 25'	6	EACH
625	LIGHT POLE FOUNDATION, 24" DIAMETER, 6' DEPTH	6	EACH
625	#4 AWG, STR, CU, 600 V, RWH	2664	L.F.
625	#4 AWG, SOLID, CU, BARE, GROUND CONDUCTOR	48	L.F.
625	#10 AWG, SOLID, CU, 600 V, XHHW, POLE AND BRACKET CABLE	294	L.F.
625	CONDUIT, 2" PVC, 725.051	888	L.F.
625	LUMINAIRE, LED STREET LIGHT	6	EACH
625	TRENCH INCL. EXCAVATION, BACKFILL & SEEDING, A.P.P.	888	L.F.
625	PULL BOX, 725.06, POLYMER CONCRETE, 24"	1	EACH
625	GROUND ROD	6	EACH
625	CADWELD CONNECTION	6	EACH
625	PLASTIC, METALIZED CAUTION TAPE	888	L.F.
	MAINTENANCE OF TRAFFIC (EMERALD PARKWAY) *		
614	MAINTAINING TRAFFIC	1	LUMP
614	LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE	40	HOURS
614	BARRIER REFLECTOR, TYPE B	27	EACH
614	OBJECT MARKER, ONE–WAY	27	EACH
614	WORK ZONE IMPACT ATTENUATOR	5	EACH
614	WORK ZONE ARROW, CLASS I	2	EACH
622	PORTABLE BARRIER, 32"	1330	L.F.

BURGESS & NIPLE
5085 REED ROAD
COLUMBUS, OHIO 43220

CITY OF DUBLIN, OHIO
COFFMAN PARK EXPANSION
POST ROAD UTILITY BURIAL
& ROADWAY LIGHTING

NO.	DESCRIPTION REVISIONS	DATE

JOB NO:	PR51132
DATE:	MAY 2013
DESIGNED BY:	MDS
DRAWN BY:	MDS
CHECKED BY:	JED
APPROVED BY:	JLG
SCALE:	NONE

GENERAL SUMMARY

2

SHEET: 2 OF 19

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GENERAL

CITY OF COLUMBUS CONSTRUCTION AND MATERIAL SPECIFICATIONS, 2012 CURRENT EDITION, AND ANY SUPPLEMENTS THERETO (HEREAFTER REFERRED TO AS STANDARD SPECIFICATIONS), SHALL GOVERN ALL CONSTRUCTION ITEMS UNLESS OTHERWISE NOTED.

THE CONTRACTOR INTENDING TO SUBMIT A BID FOR CITY OF DUBLIN CAPITAL IMPROVEMENT CONTRACTS SHALL BE PREQUALIFIED WITH THE OHIO DEPARTMENT OF TRANSPORTATION IN ACCORDANCE WITH SECTION 102 OF THE ODOT CONSTRUCTION AND MATERIAL SPECIFICATIONS, AND CHAPTER 5525 OF THE OHIO REVISED CODE CONCERNING CONSTRUCTION CONTRACTS.

ALL ITEMS OF WORK CALLED FOR ON THE PLANS FOR WHICH NO SPECIFIC METHOD OF PAYMENT IS PROVIDED SHALL BE PERFORMED BY THE CONTRACTOR WITH THE COST TO BE INCLUDED IN THE UNIT PRICE BID FOR THE VARIOUS RELATED ITEMS.

IT IS THE INTENTION OF THE CONTRACT DOCUMENTS TO PROVIDE AND REQUIRE A COMPLETED PROJECT READY FOR OPERATION. ANY WORK ITEMS OMITTED FROM THE CONTRACT DOCUMENTS WHICH ARE CLEARLY NECESSARY FOR COMPLETION OF THE WORK AND ITS APPURTENANCES SHALL BE CONSIDERED A PART OF SUCH WORK, THOUGH NOT DIRECTLY SPECIFIED OR CALLED FOR IN THE CONTRACT DOCUMENTS. THIS INCLUDES, BUT IS NOT LIMITED TO, SUCH INCIDENTAL ITEMS AS RELOCATION OF MAIL BOXES, SAW CUTTING, AND REMOVAL AND/OR RELOCATION OF SIGNS, SPRINKLERS, OR OTHER MISCELLANEOUS ITEMS.

THE CITY IS NOT RESPONSIBLE FOR MEANS, METHODS, PROCEDURES, TECHNIQUES, OR SEQUENCES OF CONSTRUCTION THAT ARE NOT SPECIFIED HEREIN. THE CITY IS NOT RESPONSIBLE FOR SAFETY ON THE WORK SITE, OR FOR FAILURE BY THE CONTRACTOR TO PERFORM WORK ACCORDING TO THE CONTRACT DOCUMENTS.

THE CONTRACTOR SHALL NOTIFY THE CITY OF DUBLIN DIVISION OF ENGINEERING AT LEAST 3 WORKING DAYS PRIOR TO BEGINNING CONSTRUCTION.

THE CITY IS RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS.

THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR COMPLYING WITH ALL FEDERAL, STATE AND LOCAL SAFETY REQUIREMENTS INCLUDING THE OCCUPATIONAL SAFETY AND HEALTH ACT OF 1970. THE CONTRACTOR SHALL EXERCISE CAUTION ALWAYS FOR THE PROTECTION OF PERSONS (INCLUDING EMPLOYEES) AND PROPERTY. IT SHALL ALSO BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO INITIATE, MAINTAIN, AND SUPERVISE ALL SAFETY REQUIREMENTS, PRECAUTIONS, AND PROGRAMS IN CONNECTION WITH THE WORK, INCLUDING THE REQUIREMENTS FOR CONFINED SPACES PER 29 CFR 1910.146.

ANY MODIFICATIONS TO THE WORK AS SHOWN ON THESE APPROVED PLANS SHALL HAVE PRIOR WRITTEN APPROVAL OF THE CITY.

THE CONTRACTOR SHALL NOT ORDER MATERIALS OR PERFORM WORK FOR ITEMS DESIGNATED BY PLAN NOTE TO BE USED "AS DIRECTED BY THE ENGINEER" UNLESS AUTHORIZED BY THE CITY.

PROPERTY BOUNDARIES, INCLUDING PROPERTY LINES AND ROAD RIGHTS-OF-WAY, ARE SHOWN FROM THE BEST INFORMATION AVAILABLE AND ARE NOT NECESSARILY COMPLETE OR CORRECT.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR HAVING THE FINISHED WORK CONFORM TO THE LINES, GRADES, ELEVATIONS, AND DIMENSIONS CALLED FOR ON THE DRAWINGS AND TYPICAL SECTIONS.

THE CONTRACTOR SHALL CAREFULLY PRESERVE BENCH MARKS, PROPERTY CORNERS, REFERENCE POINTS, STAKES, AND OTHER SURVEY REFERENCE MONUMENTS OR MARKERS. IN CASES OF DESTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORATIONS. RESETTING OF MARKERS SHALL BE PERFORMED BY AN OHIO PROFESSIONAL SURVEYOR AS APPROVED BY THE CITY AT THE CONTRACTOR'S EXPENSE.

THE CONTRACTOR SHALL RESTORE ALL DISTURBED AREAS TO EQUAL OR BETTER CONDITION THAN EXISTED BEFORE CONSTRUCTION. DRAINAGE DITCHES OR WATER COURSES THAT ARE DISTURBED BY CONSTRUCTION SHALL BE RESTORED TO THE GRADES AND CROSS-SECTIONS THAT EXISTED BEFORE CONSTRUCTION.

ALL SIGNS AND ASSOCIATED LIGHTING, FENCES, LANDSCAPING, STRUCTURES, OR OTHER APPURTENANCES DISTURBED OR DAMAGED DURING CONSTRUCTION SHALL BE REPLACED OR REPAIRED TO THE SATISFACTION OF THE CITY. THE COST OF THIS WORK SHALL BE PAID FOR BY THE CONTRACTOR.

WHERE THE WORK REQUIRES REMOVAL OF BUSINESS SIGNS OR PRIVATE LANDSCAPING SUCH AS DECORATIVE ROCKS, CROSSTIES, FENCES, OR OTHER SALVAGEABLE AND REUSABLE ITEMS, THE CONTRACTOR SHALL COORDINATE SUCH REMOVAL WITH THE PROPERTY OWNER PRIOR TO THE START OF WORK. IF THESE ITEMS CANNOT BE REPLACED TO THEIR ORIGINAL LOCATION FOLLOWING COMPLETION OF THE WORK, THE CONTRACTOR SHALL BE OBLIGATED TO RELOCATE THESE ITEMS TO A STORAGE FACILITY OF THE OWNER'S CHOICE LOCATED ON THE SAME PROPERTY. IF THE PROPERTY OWNER DOES NOT WISH TO SALVAGE THESE ITEMS THEN THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROPER REMOVAL AND DISPOSAL. PUBLIC PROPERTY TO BE SALVAGED MUST BE DELIVERED BY THE CONTRACTOR TO THE MAINTENANCE FACILITY ON SHIER RINGS ROAD. THE COST FOR THIS WORK SHALL BE INCLUDED IN THE VARIOUS RELATED ITEMS OF THE CONTRACT.

NON-RUBBER TIRED VEHICLES SHALL NOT BE MOVED ON OR ACROSS PUBLIC STREETS OR HIGHWAYS WITHOUT WRITTEN PERMISSION FROM THE CITY.

TRACKING OR SPILLING MUD, DIRT, OR DEBRIS UPON STREETS, RESIDENTIAL OR COMMERCIAL DRIVES, SIDEWALKS, OR BIKE PATHS IS PROHIBITED AND ANY SUCH OCCURRENCE SHALL BE CLEANED UP IMMEDIATELY BY THE CONTRACTOR. IF THE CONTRACTOR FAILS TO REMOVE THE MUD, DIRT, DEBRIS, OR SPILLAGE, THE CITY OF DUBLIN RESERVES THE RIGHT TO REMOVE THESE MATERIALS AND CLEAN AFFECTED AREAS, THE COST OF WHICH SHALL BE WITHHELD FROM MONIES THAT ARE DUE OR MAY BECOME DUE THE CONTRACTOR.

EXCESS EXCAVATED MATERIAL FROM UTILITY BURIAL TRENCHES SHALL BE HAULED OFFSITE BY THE CONTRACTOR AND COMPENSATION FOR HAULING SHALL BE INCLUDED IN THE UNIT PRICES BID FOR THE VARIOUS ITEMS OF THE CONTRACT.

PAVEMENTS SHALL BE SAWCUT IN NEAT, STRAIGHT LINES TO THE FULL DEPTH OF THE EXISTING PAVEMENT. THE COST FOR REMOVAL OF ASPHALT PAVEMENTS WILL NOT BE PAID SEPARATELY, BUT SHALL BE INCLUDED IN ITEM 259.

THE COST FOR REMOVAL AND DISPOSAL OF CONCRETE CURB AND CONCRETE CURB AND GUTTER WILL BE PAID AT THE UNIT PRICE BID PER LINEAL FOOT UNDER THE APPROPRIATE 202 ITEM.

TRENCH EXCAVATION SHALL BE ADEQUATELY MAINTAINED AND PROTECTED WITH DRUMS OR BARRICADES AT ALL TIMES. THE LENGTH OF TRENCH OPEN AT ANY ONE TIME SHALL BE HELD TO A MINIMUM AND SHALL AT ALL TIMES BE SUBJECT TO THE APPROVAL OF THE CITY.

ALL TRENCHES WITHIN PAVEMENT, BERM, AND SHOULDER LIMITS SHALL BE BACKFILLED OR SECURELY PLATED DURING NONWORKING HOURS. TRENCHES OUTSIDE THESE AREAS SHALL BE BACKFILLED OR SHALL BE PROTECTED BY APPROVED TEMPORARY FENCING OR BARRICADES DURING NONWORKING HOURS. CLEAN UP SHALL FOLLOW CLOSELY BEHIND THE TRENCHING OPERATION.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONDITION OF ALL TRENCHES FOR ONE-YEAR FROM THE TIME OF FINAL ACCEPTANCE OF THE WORK, AND SHALL MAKE ANY NECESSARY REPAIRS AT NO COST TO THE CITY.

THE CONTRACTOR'S CONSTRUCTION ACTIVITIES SHALL BE CONDUCTED SO AS TO ELIMINATE ALL UNNECESSARY NOISE, DUST, AND ODORS. THE USE OF OIL OR OTHER MATERIAL FOR DUST CONTROL, WHICH MAY CAUSE TRACKING, IS NOT PERMITTED.

DUST CONTROL OPERATIONS SHALL BE PERFORMED BY THE CONTRACTOR AT THE DIRECTION OF THE ENGINEER. THE FOLLOWING QUANTITIES HAVE BEEN INCLUDED AS AN ALLOWANCE FOR BIDDING PURPOSES. USE OF CALCIUM CHLORIDE WILL NOT BE PERMITTED.

ITEM 616 WATER __ M. GALS

IN THE EVENT THAT IT BECOMES NECESSARY FOR THE CITY TO PERFORM WORK OF AN IMMEDIATE NATURE (SUCH AS THE PLACEMENT OF BARRICADES OR REPLACEMENT OF SIGNS AND OTHER WARNING OR PROTECTIVE DEVICES) BECAUSE OF FAILURE OR REFUSAL OF THE CONTRACTOR TO PERFORM SUCH WORK AS REQUIRED BY THE CONTRACT, THE CONTRACTOR SHALL REIMBURSE THE CITY AT THE RATE OF 2.5 TIMES THE ACTUAL COST OF LABOR, MATERIALS, AND EQUIPMENT NECESSARY TO PERFORM SUCH WORK. THE CITY SHALL BE REQUIRED TO NOTIFY OR ATTEMPT TO NOTIFY THE DESIGNATED REPRESENTATIVE OF THE CONTRACTOR OF THE NECESSITY TO PERFORM SUCH WORK. IF THE CONTRACTOR REFUSES OR FAILS WITHIN A REASONABLE TIME TO PERFORM OR CAUSE THE PERFORMANCE OF SUCH WORK, THE CITY SHALL BE REIMBURSED BY THE CONTRACTOR IN THE AMOUNT PROVIDED HEREIN BY WAY OF A DEDUCTION FROM THE CONTRACTOR'S NEXT PAYMENT UNDER THE CONTRACT. REASONABLE TIME FOR ALL STREETS INVOLVED ON THIS CONTRACT IS 1 HOUR FROM THE TIME OF NOTIFICATION BY THE CITY.

ITEM SPECIAL - ASPHALT BIKEPATH, A.P.P.

WHERE ASPHALT BIKEPATH MUST BE REMOVED FOR DUCT INSTALLATION, THE CONTRACTOR SHALL REPLACE THE PAVEMENT IN LIKE KIND TO THE EXISTING, MATCHING THE PREVIOUS LINES AND GRADES. MINIMUM PAVEMENT BUILD UP SHALL BE 6 INCHES OF ITEM 304 AGGREGATE BASE AND 2.5 INCHES OF ITEM 448 ASPHALT SURFACE COURSE. THIS WORK WILL BE PAID AT THE UNIT PRICE BID PER SQUARE YARD FOR ITEM SPECIAL - ASPHALT BIKE PATH, A.P.P. PAVEMENTS SHALL BE NEATLY SAWCUT TO FULL DEPTH PRIOR TO REMOVAL. MAXIMUM PAY LIMITS FOR THIS ITEM SHALL BE THE TRENCH WIDTH PLUS 6 FEET.

TREE PROTECTION

ALL TREES NOT SPECIFICALLY DESIGNATED FOR REMOVAL WITH AN "X" ON THE PLANS SHALL BE PRESERVED, WHETHER SHOWN ON THE PLANS OR NOT. TREES LOCATED ADJACENT TO THE WORK AREA THAT ARE NOT DESIGNATED FOR REMOVAL SHALL HAVE PROTECTION FENCING PLACED AROUND THE CRITICAL ROOT ZONE BY THE CONTRACTOR. THE CRITICAL ROOT ZONE SHALL BE DEFINED AS ONE FOOT OF RADIUS FROM THE TREE TRUNK FOR EVERY INCH OF TRUNK DIAMETER, OR 15 FEET, WHICHEVER IS GREATER.

IN CASES WHERE PROTECTION OF THE ENTIRE CRITICAL ROOT ZONE DOES NOT ALLOW ADEQUATE ROOM FOR CONSTRUCTION, PROTECTION FENCING SHALL BE OFFSET A MAXIMUM OF 7.5 FEET FROM THE CENTER OF THE UTILITY TRENCH.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONSTRUCTION AND MAINTENANCE OF TREE PROTECTION FENCING. TREE PROTECTION FENCING HAS BEEN SHOWN ON THE PLANS FOR BIDDING PURPOSES, BUT MAY BE ADJUSTED FOR FIELD CONDITIONS IN ACCORDANCE WITH THE ABOVE REQUIREMENTS. CONTACT THE CITY OF DUBLIN FOR INSPECTION OF PROTECTION FENCING PRIOR TO HE START OF WORK.

TREE REMOVALS INDICATED ON THE PLANS SHALL BE CONSIDERED INCIDENTAL TO THE OTHER WORK, INCLUDING STUMP REMOVAL, AND WILL NOT BE PAID SEPARATELY.

DRAINAGE

THE FLOW OF ALL STORM SEWERS, DRAINS, AND OTHER WATER COURSES ENCOUNTERED AND DISTURBED OR DESTROYED DURING THE PROSECUTION OF THE WORK SHALL BE RESTORED BY THE CONTRACTOR TO A CONDITION SATISFACTORY TO THE CITY. PAYMENT FOR THIS SHALL BE INCLUDED IN THE PRICES BID FOR THE VARIOUS ITEMS OF THE CONTRACT.

ALL FIELD TILE BROKEN OR ENCOUNTERED DURING EXCAVATION SHALL BE REPLACED OR REPAIRED IN LIKE KIND AND CONNECTED TO THE NEAREST STORM SEWER OR OPEN CHANNEL OUTLET, RESTORING NORMAL FUNCTION TO THE TILE, AS DIRECTED BY THE CITY. THE COST OF THIS WORK SHALL BE INCLUDED IN THE PRICES BID FOR THE VARIOUS ITEMS OF THE CONTRACT.

BACKFILL

BACKFILL WITHIN A 1:1 INFLUENCE LINE OF EXISTING STRUCTURES (PAVEMENTS, SIDEWALKS, CURBS, ETC.) SHALL BE ITEM 912, COMPACTED GRANULAR MATERIAL, OR ITEM 613, TYPE 2.

TRENCHES WITHIN 2 FEET OF PROPOSED PAVEMENT, CURB AND GUTTER, BERM, SHOULDERS, SIDEWALK, BIKE PATH, OR WHERE SPECIFICALLY CALLED FOR ON THE PLANS, SHALL BE BACKFILLED WITH COMPACTED GRANULAR MATERIAL ACCORDING TO ITEM 912 OF THE STANDARD SPECIFICATIONS.

GRANULAR BACKFILL SHALL BE COMPACTED GRANULAR MATERIAL ACCORDING TO ITEM 912 OF THE STANDARD SPECIFICATIONS OR CONTROLLED DENSITY BACKFILL ACCORDING TO ITEM 613, TYPE 2, OF THE STANDARD SPECIFICATIONS AS DIRECTED BY THE CITY ENGINEER. **ITEM 912 MATERIAL SHALL CONSIST OF NATURAL, BROKEN, OR CRUSHED ROCK. SYNTHETIC OR MANMADE MATERIALS ARE UNACCEPTABLE.**

ALL NON-GRANULAR BACKFILL SHALL BE FURNISHED AND PLACED IN ACCORDANCE WITH ITEM 911. **THE COST OF ITEM 911 AND 912 (OR ITEM 613) BACKFILL SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE VARIOUS TRENCH TYPES, MANHOLES, ETC...**

UTILITIES

UTILITIES KNOWN TO BE LOCATED WITHIN THE LIMITS OF THIS PROJECT ARE LISTED BELOW WITH CONTACT INFORMATION.

COLUMBIA GAS OF OHIO
ROB CALDWELL - FIELD ENGINEER
EMAIL: RCALDWELL@NISOURCE.COM
PHONE: (614) 481-1057
1600 DUBLIN ROAD
COLUMBUS, OHIO 43212

AMERICAN ELECTRIC POWER
ROBERTA PYLE -
DISTRIBUTION NETWORK
EMAIL: RLPYLE@AEP.COM
PHONE: (614) 716-1298
1 RIVERSIDE PLAZA, 12TH FLOOR
COLUMBUS, OH 43215

DUBLINK PROFESSIONAL
SERVICES GROUP
JOE TEPPER
PHONE: (614) 921-8620
1366 DUBLIN ROAD
COLUMBUS, OHIO 43215

VERIZON
AL GUEST - OUTSIDE PLANT ENGINEER
EMAIL: ALLAN.GUEST@VERIZON.COM
PHONE: (330) 253-8267
120 RAVINE STREET
AKRON, OHIO 44303

AT&T OF OHIO
TOM ZIOMEK - MANAGER OSPE
EMAIL: TZ7315@ATT.COM
PHONE: (614) 223-7162
111 NORTH 4TH STREET
COLUMBUS, OHIO 43215

COLUMBUS DIVISION OF POWER AND WATER
TIM HUFFMAN
EMAIL: TEHUFFMAN@COLUMBUS.GOV
PHONE: (614) 645-7677
910 DUBLIN ROAD
COLUMBUS, OHIO 43215

TW TELECOM
RON LEFFLER - OUTSIDE PLANT ENGINEER
EMAIL: RON.LEFFLER@TWTELECOM.COM
PHONE: (614) 255-2126
250 W. OLD WILSON BRIDGE ROAD,
SUITE 130
WORTHINGTON, OHIO 43081

TIME WARNER CABLE
RAY MAURER - CONSTRUCTION SUPERVISOR
EMAIL: RAY.MAURER@TWCABLE.COM
PHONE: (614) 481-5262
3760 INTERCHANGE ROAD,
COLUMBUS, OHIO 43204

THE CONTRACTOR SHALL GIVE NOTICE OF INTENT TO CONSTRUCT TO OHIO UTILITIES PROTECTION SERVICE (TELEPHONE NUMBER 800-362-2764) AND TO OWNERS OF UNDERGROUND UTILITIES THAT ARE NOT MEMBERS OF A REGISTERED UNDERGROUND PROTECTION SERVICE. NOTICE SHALL BE GIVEN AT LEAST 2 WORKING DAYS BEFORE START OF CONSTRUCTION.

THE IDENTITY AND LOCATIONS OF EXISTING UNDERGROUND UTILITIES IN THE CONSTRUCTION AREA HAVE BEEN SHOWN ON THE PLANS AS ACCURATELY AS PROVIDED BY THE OWNER OF THE UNDERGROUND UTILITY. THE CITY OF DUBLIN ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OR DEPTHS OF UNDERGROUND FACILITIES SHOWN ON THE PLANS. IF DAMAGE IS CAUSED, THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIR OF THE SAME AND FOR ANY RESULTING CONTINGENT DAMAGE.

LOCATION, SUPPORT, PROTECTION AND RESTORATION OF ALL EXISTING UTILITIES AND APPURTENANCES, SHOWN OR NOT SHOWN ON THE PLANS, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR, INCLUDING COORDINATION WITH THE AFFECTED UTILITY OWNER. THE COST OF THIS WORK SHALL BE INCLUDED IN THE PRICES BID FOR THE VARIOUS ITEMS OF THE CONTRACT.

WHEN UNKNOWN OR INCORRECTLY LOCATED UNDERGROUND UTILITIES ARE ENCOUNTERED DURING CONSTRUCTION, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE UTILITY OWNER AND THE CITY ENGINEER.

BURGESS & NIPLE
5085 REED ROAD
COLUMBUS, OHIO 43220

CITY OF DUBLIN, OHIO
COFFMAN PARK EXPANSION
POST ROAD UTILITY BURIAL
& ROADWAY LIGHTING

NO.	DESCRIPTION REVISIONS	DATE

JOB NO: PR51132
DATE: MAY 2013
DESIGNED BY: MDS
DRAWN BY: MDS
CHECKED BY: JED
APPROVED BY: JLG
SCALE: NONE

GENERAL NOTES

3

SHEET: 3 OF 19

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PLOTTED: 5/16/2013 11:47:00 AM

OVERHEAD UTILITY BURIAL (GENERAL)

THE CONTRACTOR SHALL FURNISH ALL MATERIALS AND LABOR TO CONSTRUCT ALL CONCRETE ENCASED DUCT, NON–ENCASED DUCT, AND MANHOLES, INCLUDING EARTHWORK AND GRADING, REQUIRED FOR BURIAL OF THE EXISTING OVERHEAD UTILITIES AS SHOWN ON THE PLANS AND SPECIFIED HEREIN. OTHER WORK INCLUDES INSTALLATION OF MATERIALS FURNISHED BY THE UTILITY COMPANIES. REFER TO THE MATRIX FOR RESPONSIBILITIES ON SHEET 5.

INSPECTION. ALL OPEN CUT WORK PERFORMED BY THE CONTRACTOR, INCLUDING DUCT AND MANHOLES, THAT BECOMES THE PROPERTY OF AEP OR TWC, SHALL BE THOROUGHLY INSPECTED AND APPROVED BY A REPRESENTATIVE OF THE AFFECTED UTILITY COMPANY PRIOR TO COVERING. **ALL DUCT RUNS MUST BE APPROVED BY THE AFFECTED UTILITY COMPANY PRIOR TO PLACEMENT OF CONCRETE.** THE CONTRACTOR MUST GIVE THE UTILITY COMPANIES AT LEAST 48 HOURS NOTICE BEFORE CONCRETE POURS OR BACKFILLING DUCT AND/OR STRUCTURES. ANY WORK NOT APPROVED BY THE UTILITY COMPANY REPRESENTATIVE WILL NOT BE ACCEPTED FOR PAYMENT.

UTILITY COMPANY WORK. UPON ACCEPTANCE OF THE WORK BY THE AFFECTED UTILITY COMPANY, UTILITY FORCES WILL FURNISH AND INSTALL THE PAD MOUNTED EQUIPMENT, ALL WIRE AND CABLE THROUGH THE COMPLETED DUCT SYSTEM, AND ALL RISER POLES, COMPLETE. REMOVAL OF THE EXISTING OVERHEAD WIRE WILL BE PERFORMED BY THE UTILITY COMPANIES IMMEDIATELY FOLLOWING ENERGIZING OF THE NEW UNDERGROUND FACILITIES. POLES WILL BE REMOVED BY THE RESPONSIBLE UTILITY COMPANY.

POWER AND COMMUNICATION DUCT. CONDUIT FOR AEP AND TWC SHALL BE INSTALLED BY THE CONTRACTOR USING OPEN CUT METHODS. THE COST OF CONDUIT INSTALLATION, INCLUDING SAWCUTTING, TRENCH EXCAVATION, CONDUIT, COUPLINGS, SPACERS, AND REINFORCEMENTS, WILL BE PAID AT THE UNIT PRICE BID PER LINEAL FOOT FOR **ITEM SPECIAL – 4" (OR 5") PVC CONDUIT.** CONCRETE ENCASEMENT WILL BE PAID AT THE UNIT PRICE BID PER CUBIC YARD.

ITEM SPECIAL – TRENCH TYPE 1 OR 2. TRENCH BACKFILL AND SURFACE REPAIR WILL BE PAID AT THE UNIT PRICE BID PER LINEAL FOOT FOR EACH TRENCH TYPE AND SURFACE AS DETAILED ON SHEET 6, INCLUDING CONTROLLED DENSITY FILL, GRANULAR BACKFILL, COMPACTED BACKFILL, AGGREGATE BASE, ASPHALT BASE, AND ASPHALT SURFACING. TOPSOIL, SEEDING, AND MULCHING WILL BE PAID SEPARATELY UNDER THE APPROPRIATE ITEM.

EARTHWORK. THE CONTRACTOR SHALL COMPLETE THE EARTHWORK AND GRADING NECESSARY FOR PROPER PLACEMENT OF ALL ABOVE–GROUND EQUIPMENT (SWITCHES, TRANSFORMERS, VAULTS, ETC.) TO THE ELEVATIONS SHOWN ON THE DRAWINGS. **ACTUAL PLACEMENT OF EQUIPMENT WILL BE PERFORMED BY THE UTILITY COMPANIES.** THE COST OF EARTHWORK AND GRADING NECESSARY TO PREPARE FOR PLACEMENT OF UTILITY EQUIPMENT WILL NOT BE PAID SEPARATELY, BUT SHALL BE INCLUDED IN THE PRICE BID FOR THE RELATED ITEMS.

SURFACE RESTORATION. PAY LIMITS FOR SURFACE RESTORATION OVER THE TRENCH SHALL BE THE TRENCH WIDTH PLUS 2 FEET FOR ASPHALT ROADWAY AND THE TRENCH WIDTH PLUS 10 FEET FOR NON–PAVEMENT AREAS. DISTURBANCE BEYOND THESE LIMITS SHALL BE RESTORED BY THE CONTRACTOR AT HIS EXPENSE. COORDINATE TOP SOIL PLACEMENT WITH THE OTHER SITE WORK.

ELEVATIONS. PAD, BOX, OR MANHOLE CASTING ELEVATIONS PROVIDED ON THE PLANS ARE APPROXIMATE AND SHALL BE ADJUSTED, IF NEEDED, IN THE FIELD BY THE CONTRACTOR TO MATCH SURROUNDING FINISH GRADES.

METHOD OF MEASUREMENT. THE LENGTH OF DUCT AND TRENCH, BY TYPE, SHALL BE PAID FOR BY THE ACTUAL NUMBER OF FEET MEASURED BETWEEN MANHOLES, PADS, ETC. DEDUCTIONS SHALL BE MADE FOR MANHOLE LENGTHS.

AEP UTILITY DUCT

ALL UNDERGROUND CONDUIT SYSTEM WORK SHALL BE DONE ACCORDING TO THE MOST RECENT REVISION OF THE FOLLOWING AEP SPECIFICATIONS:

AMERICAN ELECTRIC POWER –
SPECIFICATION FOR STRUCTURAL CONCRETE
SPECIFICATION NO. CE–1000–A

AMERICAN ELECTRIC POWER
SPECIFICATION FOR UNDERGROUND DISTRIBUTION CONSTRUCTION
SPECIFICATION TDO–003

AN AEP INSPECTOR MUST APPROVE ALL DUCT AND MANHOLE INSTALLATION PRIOR TO CONCRETE PLACEMENT OR BURIAL OF CONDUIT.

1. MATERIALS

A. CONDUIT – NONMETALLIC CONDUIT SHALL BE TYPE EB–20 POLYVINYL CHLORIDE (PVC). IT SHALL BE DESIGNED TO FORM A SOUND, STRONG DUCT, FREE FROM DEFECTS. IT SHALL BE NONMAGNETIC, RESISTANT TO CORROSIVE ACTION, UNAFFECTED BY ELECTROLYSIS AND SHALL NOT SOFTEN, DEFORM OR DETERIORATE WHEN EXPOSED TO THE MAXIMUM SAFE OPERATING TEMPERATURE OF THE CABLES. THE INSIDE SURFACE OF THE CONDUIT SHALL BE SMOOTH, ROUND, AND HAVE A **5–INCH NOMINAL INSIDE DIAMTER.** THE CONDUIT SHALL BE CARLON HEAVY WALL "PV–DUIT PLUS" CONDUIT OR AN APPROVED EQUAL.

B. COUPLINGS – THE COUPLINGS SHALL BE OF THE SAME MATERIAL AS THE CONDUIT AND SHALL BE SUFFICIENTLY TIGHT TO PREVENT SILT OR CONCRETE FROM ENTERING THE CONDUIT.

C. SPACERS – THE SPACERS SHALL BE PLASTIC BASE AND INTERMEDIATE TYPE FOR PVC CONDUIT.

D. REINFORCEMENTS – ALL REINFORCING SHALL BE #4, GRADE 60, DEFORMED STEEL BARS, PLACED AS SHOWN, WITH A MINIMUM 9–INCH LAP SPACE.

2. INSTALLATION

A. THE CONDUIT SHALL BE INSTALLED AS SHOWN ON THE PLANS.

B. EXCAVATION FOR THE UNDERGROUND CONDUIT DUCTS SHALL EXTEND TO THE PROFILE OF THE LOWER SIDE OF THE CONDUIT ENCASEMENT, EXCEPT WHERE SPECIFIED IN THE PLANS OR DIRECTED BY THE ENGINEER. THE DUCTS SHALL HAVE A **MINIMUM DEPTH OF COVER OF 30 INCHES** FROM THE TOP OF THE ENCASEMENT TO THE FINISHED GRADE. THE PROFILE BETWEEN STRUCTURES SHALL BE SET SO THAT THE CONDUITS ARE LEVEL OR SLOPED TO THE NEXT STRUCTURE. WHERE CONDUITS ENTER A STRUCTURE AT A LOWER LEVEL THAN THE APPROACHING PROFILE OF THE CONDUIT, THE CONDUIT SHALL BE SLOPED DOWN TO THE STRUCTURE AT A RATE NOT–TO–EXCEED 5 PERCENT.

C. THE TRENCH SHALL BE EXCAVATED SO THAT ANY CURVE RADIUS WILL BE AS LARGE AS POSSIBLE (30 FOOT RADIUS MINIMUM UNLESS OTHERWISE INDICATED). THE TRENCH SHALL BE EXCAVATED NO WIDER THAN NECESSARY TO ACCOMMODATE THE CONDUIT AND CONCRETE ENCASEMENT AS SHOWN ON THE DETAILS. THE BOTTOM OF THE TRENCH SHALL BE UNDISTURBED, TAMPED, AND RELATIVELY SMOOTH EARTH. TRENCHES WHICH HAVE BEEN EXCAVATED TOO DEEP AT ANY POINT ARE TO BE PARTIALLY REFILLED AND TAMPED SOLID. THE SIDES OF THE TRENCH SHALL BE TRIMMED SMOOTH TO PROVIDE FOR A UNIFORM SHEATH OF CONCRETE AROUND THE CONDUITS. THE SIDES OF THE EXCAVATION SHALL BE FORMED WHERE NECESSARY TO MAINTAIN A UNIFORM ENCASEMENT.

D. WHERE A CONDUIT CROSSES A SEWER OR WATERLINE, OR ANY OTHER UNDERGROUND UTILITY, THE CLEARANCE BETWEEN THEM SHALL BE LARGE ENOUGH TO PERMIT MAINTENANCE OF THE SYSTEM WITHOUT DAMAGE TO THE STRUCTURES. THE MINIMUM CLEARANCE SHALL BE DETERMINED BY THE UTILITIES INVOLVED. A SUITABLE SUPPORT, ON EACH SIDE OF THE STRUCTURE, SHALL BE CONSTRUCTED TO AVOID TRANSFERRING ANY DIRECT LOAD ONTO THE STRUCTURE.

E. THE CONDUIT RUNS SHALL BE AS STRAIGHT AS POSSIBLE. TYPE EB–20, 5–DEGREE ANGLE COUPLINGS OR COMBINATIONS OF 5–DEGREE ANGLE COUPLINGS WITH STRAIGHT SECTIONS OF CONDUIT ARE RECOMMENDED TO NEGOTIATE CURVES. NO FIELD BENDS.

F. PRECAST PLASTIC BASE AND INTERMEDIATE SPACERS SHALL BE PLACED AT 5–FOOT INTERVALS THAT SHALL SEPARATE THE CONDUITS A MINIMUM OF 2 INCHES APART AND PROVIDE A 3–INCH MINIMUM OUTSIDE ENCASEMENT. BURRS ON THE ENDS OF THE CONDUIT, AS THE RESULT OF SAWING, MUST BE REMOVED PRIOR TO COMPLETING A JOINT. JOINTS SHALL FORM A CONTINUOUS SMOOTH INTERIOR SURFACE BETWEEN CONDUIT SECTIONS SO THAT THE CABLE WILL NOT BE DAMAGED WHEN PULLING PAST THE JOINT. SURFACES TO BE JOINED SHALL BE CLEAN AND FREE FROM DIRT, FOREIGN MATERIALS, AND MOISTURE. THE JOINTS SHALL BE SEALED WITH PROPER CEMENT SPECIFIED BY THE CONDUIT MANUFACTURER. THE CONDUITS SHALL BE TIED TOGETHER WITH HEAVY CORD SO AS TO SECURELY HOLD THE CONDUITS IN PLACE. THE OPEN ENDS OF THE CONDUITS SHALL BE CLOSED WITH TIGHT FITTING PLUGS TO PREVENT MUD OR OTHER FOREIGN MATERIAL FROM GETTING INTO THE CONDUIT. AFTER THE CONDUIT IS PLACED, IT SHALL BE INSPECTED BEFORE THE CONCRETE IS POURED.

G. PEA GRAVEL CONCRETE SHALL BE POURED AS SOON AS POSSIBLE AFTER THE CONDUITS HAVE BEEN PLACED. THE CONDUITS SHALL BE TIED DOWN TO HOLD THEM IN POSITION WHILE THE PEA GRAVEL CONCRETE IS POURED. THE PEA GRAVEL CONCRETE SHALL HAVE A SLUMP OF 4 TO 5 INCHES. THE CONCRETE DELIVERY CHUTE SHALL BE ADJUSTED SO THAT THE FALL OF THE PEA GRAVEL CONCRETE INTO THE TRENCH IS MINIMAL. A SPLASHBOARD SHALL BE USED TO DIVERT THE FLOW OF PEA GRAVEL CONCRETE AWAY FROM THE TRENCH SIDES TO AVOID DISLODGING SOIL AND STONES. PEA GRAVEL CONCRETE SHALL BE PLACED FROM ONE END OF THE DUCT SECTION TO THE OTHER END OF THE SECTION. CONTINUOUS SPADING SHALL BE DONE TO ENSURE A FLOW OF CONCRETE BETWEEN AND UNDER THE INDIVIDUAL CONDUITS. A LONG FLAT TOOL OR SPATULA SHALL BE WORKED CAREFULLY UP AND DOWN BETWEEN EACH VERTICAL LINE OF CONDUITS TO ELIMINATE ANY VOIDS. THE TOP OF THE PEA GRAVEL CONCRETE SHALL THEN BE SMOOTHED.

H. AFTER THE CONCRETE HAS TAKEN ITS INITIAL SET, THE TRENCH CAN BE BACKFILLED.

I. **AFTER THE DUCTS ARE INSTALLED, A FLEXIBLE STEEL MANDREL NOT LESS THAN 12 INCHES LONG WITH A CROSS SECTION OF 4 3/4 INCHES (FITTED WITH A PULLING EYE AT EACH END) SHALL BE PULLED THROUGH EACH CONDUIT.** BY WORKING THE MANDREL BACK AND FORTH, OBSTRUCTIONS SUCH AS CONCRETE WILL BE REMOVED. AFTER THE MANDREL HAS BEEN PULLED THROUGH, A STIFF 5–INCH CIRCULAR WIRE BRUSH AND A SWAB SHALL BE PULLED THROUGH THE CONDUITS TO REMOVE ANY OBJECTS, BITS OF CONCRETE, DIRT, ETC.

J. **A 1/2–INCH P–LINE SHALL BE INSTALLED IN ALL CONDUITS.** ENDS OF THE CONDUIT SHALL BE SEALED IN AN APPROVED MANNER TO KEEP ALL MOISTURE AND FOREIGN MATERIALS OUT OF THE CONDUIT.

ITEM SPECIAL PRECAST CONCRETE ELECTRIC MANHOLE (AEP)

1. ELECTRIC MANHOLE MATERIALS

THE PRECAST CONCRETE ELECTRIC MANHOLES SHALL BE FURNISHED BY THE CONTRACTOR AND MEET THE FOLLOWING SPECIFICATIONS:

A. THE MANHOLES SHALL BE AS MANUFACTURED BY UNITED PRECAST, NORWALK CONCRETE INDUSTRIES, INC., OR AN APPROVED EQUAL.

B. THE MANHOLES SHALL BE MANUFACTURED IN ACCORDANCE WITH THE DETAILS SHOWN ON SHEET 19 TITLED "AEP PRECAST ELECTRIC MANHOLE". OPENINGS FOR CONDUIT PENETRATION SHALL BE FIELD CORED IN A NEAT, WORKMANLIKE MANNER BY THE CONTRACTOR, **NO FACTORY KNOCK–OUTS.**

C. THE MANHOLES SHALL HAVE OVERALL NOMINAL DIMENSIONS OF 8'–2" x 13'–2". DEPTH SHALL BE 7–10" FEET NOMINAL INSIDE DIMENSION.

D. THE MANHOLES SHALL BE DESIGNED IN ACCORDANCE WITH AASHTO STANDARD HS–20–44 FOR TRUCK LOADING.

E. THE TOP OPENING SHALL BE 38 INCHES IN DIAMETER AT THE GEOMETRIC CENTER OF THE TOP SLAB.

F. THE MANHOLE FRAMES WITH HEAVY DUTY SOLID LIDS, SIMILAR TO NEENAH FOUNDRY CO., R–1753A, SHALL INSTALLED AT EACH TOP OPENING. CASTING TO BE FURNISHED BE AEP.

G. PULLING EYES SHALL BE PROVIDED ON THE OPPOSITE SIDE OF EACH DUCT OPENING. PULLING EYES SHALL BE AS THAT MANUFACTURED BY LINE MATERIAL COMPANY, STYLE NO. DU 2T3, OR AN APPROVED EQUAL. PULLING EYES MUST BE PLATED BEHIND THE NUT TO PREVENT PULL–THROUGH.

H. ALL CONCRETE USED IN CONSTRUCTION OF THE MANHOLES SHALL BE CLASS "C".

2. INSTALLATION

A. THE CONTRACTOR SHALL PROVIDE ALL EXCAVATION AND BACKFILL NECESSARY FOR MANHOLES AND UNDERGROUND CONDUIT DUCT INSTALLATIONS.

B. EXCAVATION FOR MANHOLES SHALL EXTEND A MINIMUM OF 6 INCHES BELOW THE BOTTOM OF THEIR BASES OR AS NECESSARY FOR PROPER INSTALLATION OF DRAINAGE AND THE COMPLETION OF THE WORK. NO. 8 AGGREGATE OR SIMILAR DRAINAGE MEDIUM SHALL BE PLACED UNDER THE MANHOLES.

C. THE TOP OF THE PRECAST STRUCTURE SHALL BE AT LEAST 24ö BELOW EXISTING/PROPOSED GROUND. IF THE BOX IS LOCATED IN A SLOPED AREA THE MINIMUM DEPTH WILL BE MEASURED FROM THE LOWEST GROUND POINT.

D. AFTER THE MANHOLES ARE SET AND CONDUITS ARE INSTALLED, BACKFILL SHALL BE BROUGHT TO PROPER LEVEL AND SHALL BE COMPACTED IN ACCORDANCE WITH ITEM 604, SECTION 604.04 OF THE "CONSTRUCTION AND MATERIAL SPECIFICATIONS." BACKFILL SHALL BE BROUGHT TO THE BOTTOM OF THE PROPOSED PAVING BASE IN PAVED AREAS. RESTORATION OF THE SURFACE SHALL BE AS DETAILED ON THE PLANS AND SHALL BE IN KIND WITH THE SURROUNDING MATERIALS.

E. WORK SHALL BE PLANNED SO THAT EXCAVATIONS ARE OPEN FOR A MINIMUM OF TIME. NO LOAD OR BACKFILL SHALL BE APPLIED OR OTHER WORK CONDUCTED THAT WOULD DAMAGE THE NEW CONCRETE OR INTERFERE WITH CURING.

F. ALL OPEN TRENCHES SHALL BE BARRICADED AND PROPERLY PROTECTED.

G. AFTER MANHOLES ARE PLACED, THE MANHOLE COVER FRAMES SHALL BE PLACED AND THE TOP ADJUSTED TO GROUND OR PAVING LEVEL. FINAL ADJUSTMENTS WILL BE REQUIRED FOR FINAL RESURFACING. A 6–INCH THICK CONCRETE OR BRICK ADJUSTING RING SHALL BE PROVIDED TO ENSURE CLOSURE BETWEEN THE TOP SLAB OF THE MANHOLE AND THE FRAME.

3. BASIS OF PAYMENT

THE WORK INCLUDED IN THESE ITEMS, INCLUDING EXCAVATION, BACKFILL, AND ALL EQUIPMENT AND MATERIALS NECESSARY, SHALL BE PAID FOR AT THE CONTRACT PRICE, COMPLETED IN PLACE.

ITEM SPECIAL - FIBERGLASS SWITCH PAD INSTALLATION (AEP)

THE CONTRACTOR SHALL INSTALL AN AEP FURNISHED BOX AND PAD AT THE LOCATIONS SHOWN ON THE PLANS FOR EACH SWITCH PRIOR TO BACKFILLING THE CONDUIT TRENCH.

THE COST FOR INSTALLATION OF THE AEP FURNISHED SWITCH BOX AND PAD, INCLUDING ALL EXCAVATION, BACKFILL, AND CONNECTION OF DUCT, WILL BE PAID AT THE UNIT PRICE BID PER EACH INSTALLED, COMPLETE, AND READY FOR INSTALLATION OF THE SWITCH AND CABLE BY AEP.

BURGESS & NIPLE
5085 REED ROAD
COLUMBUS, OHIO 43220

CITY OF DUBLIN, OHIO
COFFMAN PARK EXPANSION
POST ROAD UTILITY BURIAL
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NO.	DESCRIPTION REVISIONS	DATE

JOB NO:	PR51132
DATE:	MAY 2013
DESIGNED BY:	MDS
DRAWN BY:	MDS
CHECKED BY:	JED
APPROVED BY:	JLG
SCALE:	NONE

GENERAL NOTES

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RESPONSIBILITY MATRIX

ITEM	FURNISHED BY	INSTALLED BY
SWITCH BOX AND PAD	AEP	CONTRACTOR
SWITCH	AEP	AEP
1–PHASE TRANSF. PAD (FIBERGLASS)	AEP	AEP
1–PHASE TRANSFORMER	AEP	AEP
3–PHASE TRANSF. PAD (CONCRETE)	CONTRACTOR	CONTRACTOR
3–PHASE TRANSFORMER	AEP	AEP
MANHOLE (CONCRETE)	AEP	CONTRACTOR
DUCT	CONTRACTOR	CONTRACTOR
CABLE	AEP	AEP

MATRIX FOR RESPONSIBILITIES

ITEM	FURNISHED BY	INSTALLED BY
PRIMARY VAULT	TWC	TWC
MANHOLE (CONCRETE)	TWC	CONTRACTOR
DUCT	CONTRACTOR	CONTRACTOR
CABLE	TWC	TWC

TWC UTILITY CONDUIT

1. MATERIALS

A. CONDUIT – NONMETALLIC CONDUIT SHALL BE SCHEDULE 40 POLYVINYL CHLORIDE (PVC) AS MANUFACTURED BY OSBURN ASSOCIATES, OR APPROVED EQUAL. THEY SHALL BE DESIGNED TO FORM SOUND, STRONG DUCT, FREE FROM DEFECTS. THE INSIDE SURFACE OF THE CONDUIT SHALL BE SMOOTH, ROUND, AND HAVE A **4–INCH NOMINAL INSIDE DIAMETER.**

B. COUPLINGS – THE COUPLINGS SHALL BE OF THE SAME MATERIAL AS THE CONDUIT AND SHALL BE SUFFICIENTLY TIGHT TO PREVENT SILT OR CONCRETE FROM ENTERING THE CONDUIT.

C. SPACERS – CONDUIT SHALL BE SUPPORTED AND SEPARATED BY CONDUIT BRACKETS AS MANUFACTURED BY OSBURN ASSOCIATES, PART NOS. 5120, 5121, 5150, OR 5151, OR APPROVED EQUAL.

2. INSTALLATION

A. THE CONDUIT SHALL BE INSTALLED AS SHOWN ON THE PLANS.

B. EXCAVATION FOR THE UNDERGROUND CONDUIT DUCTS SHALL EXTEND TO THE PROFILE OF THE LOWER SIDE OF THE CONDUIT ENCASEMENT, EXCEPT WHERE SPECIFIED IN THE PLANS OR DIRECTED BY THE ENGINEER. THE DUCTS SHALL HAVE A MINIMUM DEPTH OF COVER OF 30 INCHES TO FINISHED GRADE. THE PROFILE BETWEEN STRUCTURES SHALL BE SET SO THAT THE CONDUITS ARE LEVEL OR SLOPED TO THE NEXT STRUCTURE. WHERE CONDUITS ENTER A STRUCTURE AT A LOWER LEVEL THAN THE APPROACHING PROFILE OF THE CONDUIT, THE CONDUIT SHALL BE SLOPED DOWN TO THE STRUCTURE AT A RATE NOT–TO–EXCEED 5 PERCENT.

C. THE TRENCH SHALL BE EXCAVATED SO THAT ANY CURVE RADIUS WILL BE AS LARGE AS POSSIBLE (5 FOOT RADIUS MINIMUM). THE TRENCH SHALL BE EXCAVATED NO WIDER THAN NECESSARY TO ACCOMMODATE THE CONDUIT AND GRANULAR BACKFILL AS SHOWN ON THE DETAILS. THE BOTTOM OF THE TRENCH SHALL BE UNDISTURBED, TAMPED, AND RELATIVELY SMOOTH EARTH. TRENCHES WHICH HAVE BEEN EXCAVATED TOO DEEP AT ANY POINT ARE TO BE PARTIALLY REFILLED AND TAMPED SOLID. THE SIDES OF THE TRENCH SHALL BE TRIMMED SMOOTH TO PROVIDE FOR A UNIFORM SHEATH OF GRANULAR BACKFILL AROUND THE CONDUITS AS REQUIRED.

D. WHERE A CONDUIT CROSSES A SEWER OR WATERLINE, OR ANY OTHER UNDERGROUND UTILITY, THE CLEARANCE BETWEEN THEM SHALL BE LARGE ENOUGH TO PERMIT MAINTENANCE OF THE SYSTEM WITHOUT DAMAGE TO THE STRUCTURES. THE MINIMUM CLEARANCE SHALL BE DETERMINED BY THE UTILITIES INVOLVED. A SUITABLE SUPPORT, ON EACH SIDE OF THE STRUCTURE, SHALL BE CONSTRUCTED TO AVOID TRANSFERRING ANY DIRECT LOAD ONTO THE STRUCTURE.

E. THE CONDUIT RUNS SHALL BE AS STRAIGHT AS POSSIBLE. FIVE DEGREE ANGLE COUPLINGS OR COMBINATIONS OF 5–DEGREE ANGLE COUPLINGS WITH STRAIGHT SECTIONS OF CONDUIT ARE RECOMMENDED TO NEGOTIATE CURVES. ANY FIELD BENDING OF CONDUIT SHALL BE DONE USING THE MANUFACTURER'S RECOMMENDED EQUIPMENT AND PROCEDURES.

F. PRECAST PLASTIC BASE AND CONDUIT BRACKETS SHALL BE PLACED AT 5–FOOT INTERVALS THAT SHALL SEPARATE THE CONDUITS A MINIMUM OF 2 INCHES APART AND PROVIDE A 3–INCH MINIMUM OUTSIDE ENCASEMENT. BURRS ON THE ENDS OF THE CONDUIT, AS A RESULT OF SAWING, MUST BE REMOVED PRIOR TO COMPLETING A JOINT. JOINTS SHALL FORM A CONTINUOUS SMOOTH INTERIOR SURFACE BETWEEN CONDUIT SECTIONS SO THAT THE CABLE WILL NOT BE DAMAGED WHEN PULLING PAST THE JOINT. SURFACES TO BE JOINED SHALL BE CLEAN AND FREE FROM DIRT, FOREIGN MATERIALS, AND MOISTURE. THE JOINTS SHALL BE SEALED WITH PROPER CEMENT SPECIFIED BY THE CONDUIT MANUFACTURER. THE CONDUITS SHALL BE TIED TOGETHER WITH HEAVY CORD SO AS TO SECURELY HOLD THE CONDUITS IN PLACE. THE OPEN ENDS OF THE CONDUITS SHALL BE CLOSED WITH TIGHT FITTING PLUGS TO PREVENT MUD OR OTHER FOREIGN MATERIAL FROM GETTING INTO THE CONDUIT. AFTER THE CONDUIT IS PLACED, IT MUST BE INSPECTED BY TIME WARNER BEFORE PLACEMENT OF GRANULAR BACKFILL.

G. THE GRANULAR BACKFILL SHALL BE PLACED AS SOON AS POSSIBLE AFTER THE CONDUITS HAVE BEEN INSTALLED AND INSPECTED. CONDUITS SHALL BE TIED DOWN TO HOLD THEM IN POSITION WHILE THE GRANULAR BACKFILL IS PLACED AND COMPACTED. GRANULAR BACKFILL SHALL BE SIFTED AROUND AND BETWEEN THE CONDUIT AT A RATE THAT ALLOWS FOR COMPLETE FILLING OF VOIDS. THE COST OF GRANULAR BACKFILL SHALL BE INCLUDED IN THE UNIT PRICE BID PER LINEAL FOOT FOR TRENCH, TYPE 1 OR 2. THE CONTRACTOR MAY SUBSTITUTE CONTROLLED DENSITY FILL PER CITY OF COLUMBUS ITEM 613, TYPE 3 AT NO ADDITIONAL COST.

I. **AFTER THE DUCTS ARE INSTALLED, A FLEXIBLE STEEL MANDREL NOT LESS THAN 12 INCHES LONG WITH A CROSS SECTION OF 3 3/4 INCHES (FITTED WITH A PULLING EYE AT EACH END) SHALL BE PULLED THROUGH EACH CONDUIT TO INSURE CLEANLINESS AND CONTINUITY.** BY WORKING THE MANDREL BACK AND FORTH, OBSTRUCTIONS SUCH AS CONCRETE MUST BE REMOVED. AFTER THE MANDREL HAS BEEN PULLED THROUGH, A STIFF 4–INCH CIRCULAR WIRE BRUSH AND A SWAB SHALL BE PULLED THROUGH THE CONDUITS TO REMOVE ANY FOREIGN OBJECTS, BITS OF CONCRETE, DIRT, ETC.

J. **A 1/4–INCH BRAIDED NYLON PULLING ROPE SHALL BE INSTALLED IN ALL SPARE CONDUITS.** ENDS OF THE CONDUIT SHALL BE SEALED IN AN APPROVED MANNER TO KEEP ALL MOISTURE AND FOREIGN MATERIALS OUT OF THE CONDUIT.

K. AT "PULL–UP" LOCATIONS, 12 INCHES OF CONDUIT SHALL BE EXPOSED ABOVE FINISHED GRADE AND SEALED WITH A 4–INCH CAP.

ITEM SPECIAL - PRECAST CONCRETE COMMUNICATIONS MANHOLE (TWC)

1. COMMUNICATIONS MANHOLE MATERIALS

THE PRECAST CONCRETE COMMUNICATIONS MANHOLES SHALL BE FURNISHED BY THE CONTRACTOR AND MEET THE FOLLOWING SPECIFICATIONS:

A. THE MANHOLES SHALL BE AS MANUFACTURED BY HARTFORD CONCRETE PRODUCTS, INC., OR AN APPROVED EQUAL.

B. THE MANHOLES SHALL BE MANUFACTURED IN ACCORDANCE WITH THE DETAILS SHOWN ON SHEET 17 TITLED "TYPE 'J' MANHOLE".

C. THE MANHOLES SHALL HAVE OVERALL NOMINAL DIMENSIONS OF 6'X6'X8'.

D. THE MANHOLES SHALL BE DESIGNED IN ACCORDANCE WITH AASHTO STANDARD HS–20–44 FOR TRUCK LOADING.

E. MANHOLE FRAMES WITH HEAVY DUTY SOLID LIDS, SIMILAR TO NEENAH FOUNDRY CO., R–1753A, SHALL INSTALLED AT EACH TOP OPENING.

F. ALL CONCRETE USED IN CONSTRUCTION OF THE MANHOLES SHALL BE CLASS "C".

2. INSTALLATION

A. THE CONTRACTOR SHALL PROVIDE ALL EXCAVATION AND BACKFILL NECESSARY FOR MANHOLES AND UNDERGROUND CONDUIT DUCT INSTALLATIONS.

B. EXCAVATION FOR MANHOLES SHALL EXTEND A MINIMUM OF 6 INCHES BELOW THE BOTTOM OF THEIR BASES OR AS NECESSARY FOR PROPER INSTALLATION OF DRAINAGE AND THE COMPLETION OF THE WORK. NO. 8 AGGREGATE OR SIMILAR DRAINAGE MEDIUM SHALL BE PLACED UNDER THE MANHOLES.

C. THE TOP OF THE PRECAST STRUCTURE SHALL BE AT LEAST 24ö BELOW EXISTING/PROPOSED GROUND. IF THE BOX IS LOCATED IN A SLOPED AREA THE MINIMUM DEPTH WILL BE MEASURED FROM THE LOWEST GROUND POINT.

D. AFTER THE MANHOLES ARE SET AND CONDUITS ARE INSTALLED, BACKFILL SHALL BE BROUGHT TO PROPERTY LEVEL AND SHALL BE COMPACTED IN ACCORDANCE WITH ODOT ITEM 604, SECTION 604.04 OF THE "CONSTRUCTION AND MATERIAL SPECIFICATIONS." BACKFILL SHALL BE BROUGHT TO THE BOTTOM OF THE PROPOSED PAVING BASE IN PAVED AREAS. RESTORATION OF THE SURFACE SHALL BE AS DETAILED ON THE PLANS AND SHALL BE IN KIND WITH THE SURROUNDING MATERIALS.

E. WORK SHALL BE PLANNED SO THAT EXCAVATIONS ARE OPEN FOR A MINIMUM OF TIME. NO LOAD OR BACKFILL SHALL BE APPLIED OR OTHER WORK CONDUCTED THAT WOULD DAMAGE THE NEW CONCRETE OR INTERFERE WITH CURING.

F. ALL OPEN TRENCHES SHALL BE BARRICADED AND PROPERLY PROTECTED.

G. AFTER MANHOLES ARE PLACED, THE MANHOLE COVER FRAMES SHALL BE PLACED AND THE TOP ADJUSTED TO GROUND OR PAVING LEVEL. FINAL ADJUSTMENTS WILL BE REQUIRED FOR FINAL RESURFACING. A 6–INCH THICK CONCRETE OR BRICK ADJUSTING RING SHALL BE PROVIDED TO ENSURE CLOSURE BETWEEN THE TOP SLAB OF THE MANHOLE AND THE FRAME.

3. BASIS OF PAYMENT

THE WORK INCLUDED IN THESE ITEMS, INCLUDING EXCAVATION, BACKFILL, AND ALL EQUIPMENT AND MATERIALS NECESSARY, SHALL BE PAID FOR AT THE CONTRACT PRICE, COMPLETED IN PLACE.

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POST ROAD UTILITY BURIAL
& ROADWAY LIGHTING

NO.	DESCRIPTION REVISIONS	DATE

JOB NO:	PR51132
DATE:	MAY 2013
DESIGNED BY:	MDS
DRAWN BY:	MDS
CHECKED BY:	JED
APPROVED BY:	JLG
SCALE:	NONE

GENERAL NOTES

5

SHEET: 5 OF 19

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ITEM 614 - MAINTAINING TRAFFIC

NO STREET CLOSURES WILL BE PERMITTED PRIOR TO OR DURING THE MEMORIAL TOURNAMENT. THE TOURNAMENT IS TYPICALLY SCHEDULED FOR THE FIRST WEEKEND OF JUNE AND INCLUDES THE WEEK PRECEDING THAT WEEKEND. CONTACT THE CITY OF DUBLIN FOR SPECIFIC DATES FOR THE PARTICULAR YEAR.

A MINIMUM OF ONE LANE OF TRAFFIC IN EACH DIRECTION SHALL BE MAINTAINED ALONG EMERALD PARKWAY AND POST ROAD AT ALL TIMES.

ACCESS TO ALL ACTIVE DRIVEWAYS SHALL BE MAINTAINED AT ALL TIMES EXCEPT THE DRIVEWAY INTO THE PARK AT THE INTERSECTION OF EMERALD PARKWAY AT POST ROAD.

THE CONTRACTOR SHALL MAINTAIN ACCESS AT ALL TIMES TO THE CITY MAINTENANCE BUILDING, BOOSTER STATION, AND THE TIME WARNER CABLE BUILDING VIA COMMERCE PARKWAY AND/OR THE REC CENTER BRIDGE. ACCESS DOES NOT NEED TO BE MAINTAINED FROM EMERALD PARKWAY. SEE SITE WORK AND DRIVEWAY PLANS FOR ADDITIONAL REQUIREMENTS.

LENGTH AND DURATION OF LANE CLOSURES AND RESTRICTIONS SHALL BE AT THE APPROVAL OF THE ENGINEER. IT IS THE INTENT TO MINIMIZE THE IMPACT TO THE TRAVELING PUBLIC. LANE CLOSURES OR RESTRICTIONS WILL NOT BE PERMITTED OVER SEGMENTS OF THE PROJECT IN WHICH NO WORK IS ANTICIPATED WITHIN A REASONABLE TIME FRAME, AS DETERMINED BY THE ENGINEER. THE LEVEL OF UTILIZATION OF MAINTENANCE OF TRAFFIC DEVICES SHALL BE COMMENSURATE WITH THE WORK IN PROGRESS.

THE CONTRACTOR SHALL NOTIFY THE ENGINEER AND THE CITY OF DUBLIN AT LEAST 14 DAYS IN ADVANCE OF ANY PLANNED LANE CLOSURES OR OTHER DISRUPTION OF TRAFFIC.

NO EXTENSIONS OF TIME SHALL BE GRANTED FOR DELAYS IN MATERIAL DELIVERIES, UNLESS SUCH DELAYS ARE INDUSTRY-WIDE, OR FOR LABOR STRIKES, UNLESS SUCH STRIKES ARE AREA-WIDE.

SHOULD THE CONTRACTOR FAIL TO MEET ANY OF THESE REQUIREMENTS, THE CONTRACTOR WILL BE ASSESSED LIQUIDATED DAMAGES IN ACCORDANCE WITH THE CONTRACT.

ALL WORK AND TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH ITEM 614 AND OTHER APPLICABLE PORTIONS OF THE SPECIFICATIONS, AS WELL AS THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES. PAYMENT FOR ALL LABOR, EQUIPMENT, AND MATERIALS SHALL BE INCLUDED IN THE LUMP SUM CONTRACT PRICE FOR **ITEM 614 – MAINTAINING TRAFFIC,** UNLESS SEPARATELY ITEMIZED IN THE PLANS.

CONSTRUCTION INITIATION

THE CONTRACTOR WILL NOTIFY THE ENGINEER AND THE CITY OF DUBLIN 14 DAYS PRIOR TO THE START OF CONSTRUCTION ACTIVITIES. THE CONTRACTOR WILL IMMEDIATELY INFORM THE ENGINEER AND THE CITY OF DUBLIN OF ANY AND ALL DELAYS AND/OR CHANGES REGARDING THE CONSTRUCTION PROJECT.

ALTERNATE METHODS

THE CONTRACTOR MAY SUBMIT ALTERNATE METHODS FOR THE MAINTENANCE OF TRAFFIC PROVIDED THE INTENT OF THE ABOVE PROVISIONS IS FOLLOWED AND NO ADDITIONAL INCONVENIENCE TO THE TRAVELING PUBLIC RESULTS FROM THE CHANGE. NO ALTERNATIVE PLANS SHALL BE PLACED IN EFFECT UNTIL APPROVAL HAS BEEN RECEIVED FROM THE ENGINEER IN WRITING.

MAINTENANCE OF TRAFFIC SIGNALS

THE CONTRACTOR SHALL NOT MAKE ANY CHANGES TO THE EXISTING TRAFFIC SIGNALS. IF THE SIGNAL TIMINGS NEED TO BE ADJUSTED DURING CONSTRUCTION DUE TO LANE CLOSURES, THE CONTRACTOR SHALL CONTACT THE CITY OF DUBLIN.

THE CONTRACTOR SHALL CONTACT THE CITY OF DUBLIN IF ANY DAMAGE IS DONE TO THE EXISTING SIGNALS. THE CITY OF DUBLIN MAY REQUIRE THE CONTRACTOR TO PAY FOR ALL REPAIRS THE CITY OF DUBLIN NEEDS TO MAKE DUE TO THE DAMAGES BY THE CONTRACTOR.

MAINTENANCE OF TRAFFIC DETAILS

THE UTILITY CROSSING UNDER EMERALD PARKWAY NEAR POST ROAD SHALL BE INSTALLED IN THREE (3) PHASES. ON EMERALD PARKWAY: 1) CLOSURE OF THE WESTERN MOST LANE, 2) CLOSURE OF THE NEXT TWO LANES, 3) CLOSURE OF THE TWO EASTERN MOST LANES. PHASES 1 & 3 MAY BE PERFORMED AT THE SAME TIME IF PREFERRED. CLOSURE OF THESE LANES SHALL BE PER ODOT SCD MT-95.40. HOWEVER, THE SIGN SPACING SHALL BE AT 250' AND THEY SHOULD ONLY BE POSTED IN THE MEDIAN ON THE SOUTH LEG OF THIS INTERSECTION. ADDITIONAL SIGNING SHALL BE PLACED IF THE ADVANCE SIGNING SET-UP EXTENDS THROUGH AN ADJACENT INTERSECTION TO WARN THE CROSS TRAFFIC OF THE WORK ZONE. W20-1 AND G20-2 SIGNS SHALL ALSO BE PLACED ON POST ROAD. APPROACH LANES ON POST ROAD WILL NEED TO BE CLOSED TO MATCH THE NUMBER OF RECEIVING LANES AT THIS INTERSECTION DURING THESE MOT SET-UPS. THESE LANES SHALL BE CLOSED WITH DRUMS AT 10' SPACING. COVER OR REPLACE LANE USE SIGNS AND PROVIDE APPROPRIATE WARNING SIGNS FOR THE CLOSED LANES. ALSO, DURING PHASE 1 THE MIDDLE SOUTHBOUND LANE SHALL BE CHANGED FROM A LEFT TURN LANE TO A THROUGH LANE. COVER OR REPLACE THE LANE USE SIGNS AND PAVEMENT MARKING ARROWS ON THIS APPROACH DURING THIS PHASE.

ALL WORK WITHIN 10' FROM THE CURB THAT DOES NOT REQUIRE A LANE CLOSURE SHALL BE PERFORMED USING A SHOULDER CLOSURE PER OMUTCD FIGURE 6H-6 DUE TO THE DROP-OFFS IN WORK ZONE REQUIREMENTS. SEE ODOT SCD MT-101.90 FOR ALL DROP-OFFS IN WORK ZONE REQUIREMENTS.

PEDESTRIAN TRAFFIC SHALL BE DETOURED PER ODOT SCD MT-110.10 ANY TIME A PEDESTRIAN CURB RAMP, CROSSWALK, OR SIDEWALK IS NOT ACCESSIBLE OR IS NOT USEABLE.

ITEM 614 - BARRIER REFLECTORS AND/OR OBJECT MARKERS

BARRIER REFLECTORS AND/OR OBJECT MARKERS SHALL BE INSTALLED ON ALL PORTABLE BARRIER (PB) USED FOR TRAFFIC CONTROL. BARRIER REFLECTORS, OBJECT MARKERS AND THEIR INSTALLATION SHALL CONFORM TO CMS 626, EXCEPT THAT THE SPACING SHALL BE 50 FEET. AN ESTIMATED QUANTITY OF 27 EACH OF ITEM 614 BARRIER REFLECTOR, TYPE B AND 27 EACH OF ITEM 614 OBJECT MARKER, ONE-WAY HAVE BEEN PROVIDED AND CARRIED TO THE GENERAL SUMMARY.

ITEM 614 - WORK ZONE IMPACT ATTENUATOR FOR 24" HAZARDS (UNIDIRECTIONAL OR BIDIRECTIONAL)

THIS ITEM SHALL CONSIST OF FURNISHING AND INSTALLING A NON-GATING IMPACT ATTENUATOR. FURNISH AN IMPACT ATTENUATOR FROM THE OFFICE OF ROADWAY ENGINEERING APPROVED LIST FOR WORK ZONE IMPACT ATTENUATORS. THE APPROVED LIST IS AVAILABLE AT THE "ROADWAY STANDARDS: PROPRIETARY ROADSIDE SAFETY DEVICES" WEB PAGE ON THE OFFICE OF ROADWAY ENGINEERING WEBSITE.

INSTALLATION SHALL BE AT THE LOCATIONS SPECIFIED IN THE STANDARD DRAWINGS IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS.

THE CONTRACTOR SHALL REPAIR OR REPLACE A DAMAGED UNIT WITHIN 24 HOURS OF A DAMAGING IMPACT.

WHEN BIDIRECTIONAL DESIGNS ARE SPECIFIED, THE CONTRACTOR SHALL SUPPLY APPROPRIATE TRANSITIONS.

WHEN GATING IMPACT ATTENUATORS ARE DESIRED, THE CONTRACTOR SHALL SUBMIT DOCUMENTATION TO THE ENGINEER FOR ACCEPTANCE.

THE COST FOR THE ADDITIONAL BARRIER REQUIRED FOR A GATING IMPACT ATTENUATOR SHALL BE INCLUDED IN THE COST OF THE GATING IMPACT ATTENUATOR.

PAYMENT FOR THE ABOVE WORK SHALL BE MADE AT THE UNIT PRICE BID AND SHALL INCLUDE ALL LABOR, TOOLS, EQUIPMENT AND MATERIALS NECESSARY TO CONSTRUCT AND MAINTAIN A COMPLETE AND FUNCTIONAL IMPACT ATTENUATOR SYSTEM, INCLUDING ALL RELATED BACKUPS, TRANSITIONS, LEVELING PADS, HARDWARE AND GRADING, NOT SEPARATELY SPECIFIED, AS REQUIRED BY THE MANUFACTURER.

ITEM 614 - LAW ENFORCEMENT OFFICER (WITH PATROL CAR) FOR ASSISTANCE DURING CONSTRUCTION OPERATIONS

USE OF LAW ENFORCEMENT OFFICERS (LEOS) BY CONTRACTORS OTHER THAN THE USES SPECIFIED BELOW WILL NOT BE PERMITTED AT PROJECT COST. LEOS SHOULD NOT BE USED WHERE THE OMUTCD INTENDS THAT FLAGGERS BE USED.

IN ADDITION TO THE REQUIREMENTS OF CMS 614 AND THE OMUTCD, A UNIFORMED LEO WITH AN OFFICIAL PATROL CAR (CAR WITH TOP-MOUNTED EMERGENCY FLASHING LIGHTS AND COMPLETE MARKINGS OF THE APPROPRIATE LAW ENFORCEMENT AGENCY) SHALL BE PROVIDED FOR THE FOLLOWING TRAFFIC CONTROL TASKS:

A. DURING THE ENTIRE ADVANCE PREPARATION AND CLOSURE SEQUENCE WHERE COMPLETE BLOCKAGE OF TRAFFIC IS REQUIRED.

B. FOR LANE CLOSURES: DURING INITIAL SET-UP PERIODS, TEAR DOWN PERIODS, SUBSTANTIAL SHIFTS OF A CLOSURE POINT OR WHEN NEW LANE CLOSURE ARRANGEMENTS ARE INITIATED FOR LONG-TERM LANE CLOSURES/SHIFTS (FOR THE FIRST AND LAST DAY OF MAJOR CHANGES IN TRAFFIC CONTROL SETUP). IN GENERAL, LEOS SHOULD BE POSITIONED AT THE POINT OF LANE RESTRICTION OR ROAD CLOSURE AND TO MANUALLY CONTROL TRAFFIC MOVEMENTS THROUGH INTERSECTIONS IN WORK ZONES.

C. WHEN CONSTRUCTION VEHICLES ARE ENTERING/EXITING THE ZONE DIRECTLY FROM/INTO AN OPEN LANE OF TRAFFIC. IF A LANE HAS BEEN CLOSED TO PROVIDE AN ACCELERATION/DECELERATION LANE FOR THE VEHICLE, THE LEO WILL NOT BE REQUIRED.

LEOS SHOULD NOT FORGO THEIR TRAFFIC CONTROL RESPONSIBILITIES TO APPREHEND MOTORISTS FOR ROUTINE TRAFFIC VIOLATIONS. HOWEVER, IF A MOTORIST'S ACTIONS ARE CONSIDERED TO BE RECKLESS, THEN PURSUIT OF THE MOTORIST IS APPROPRIATE.

THE LEOS WORK AT THE DIRECTION OF THE CONTRACTOR. THE CONTRACTOR IS RESPONSIBLE FOR SECURING THE SERVICES OF THE LEOS WITH THE APPROPRIATE AGENCIES AND COMMUNICATING THE INTENTIONS OF THE PLANS WITH RESPECT TO DUTIES OF THE LEOS. THE ENGINEER SHALL HAVE FINAL CONTROL OVER THE LEOS' DUTIES AND PLACEMENT, AND WILL RESOLVE ANY ISSUES THAT MAY ARISE BETWEEN THE TWO PARTIES.

THE LEO SHALL REPORT TO THE CONTRACTOR PRIOR TO THE START OF THE SHIFT, IN ORDER TO RECEIVE INSTRUCTIONS REGARDING SPECIFIC WORK ASSIGNMENTS DURING HIS/HER SHIFT. THE LEO IS EXPECTED TO STAY AT THE PROJECT SITE FOR THE ENTIRE DURATION OF HIS/HER SHIFT. THE LEO SHALL REPORT TO THE CONTRACTOR AT THE END OF HIS/HER SHIFT. ONCE THE LEO HAS COMPLETED THE DUTIES DESCRIBED ABOVE AND STILL HAS TIME REMAINING ON HIS/HER SHIFT, THE LEO MAY BE ASKED TO PATROL THROUGH THE WORK ZONE (WITH FLASHING LIGHTS OFF) OR BE PLACED AT A LOCATION TO DETER MOTORISTS FROM SPEEDING. SHOULD IT BE NECESSARY TO LEAVE THE PROJECT SITE, THE LEO SHALL NOTIFY THE ENGINEER. THE CONTRACTOR SHALL PROVIDE THE LEO WITH A TWO-WAY COMMUNICATION DEVICE WHICH SHALL BE RETURNED TO THE CONTRACTOR AT THE END OF HIS/HER SHIFT.

LEOS (WITH PATROL CAR) REQUIRED BY THE TRAFFIC MAINTENANCE TASKS ABOVE SHALL BE PAID FOR ON A UNIT PRICE (HOURLY) BASIS UNDER **ITEM 614 – LAW ENFORCEMENT OFFICER (WITH PATROL CAR)** FOR ASSISTANCE. THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY.

ITEM 614, LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE 40 HOURS

THE HOURS PAID SHALL INCLUDE ANY MINIMUM SHOW-UP TIME REQUIRED BY THE LAW ENFORCEMENT AGENCY INVOLVED.

ANY ADDITIONAL COSTS (ADMINISTRATIVE OR OTHERWISE) INCURRED BY THE CONTRACTOR TO OBTAIN THE SERVICES OF A LEO ARE INCLUDED WITH THE BID UNIT PRICE FOR ITEM 614, LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE.

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DRAWN BY:	EMW
CHECKED BY:	JED
APPROVED BY:	JLG
SCALE:	NONE

MAINTENNACE OF TRAFFIC NOTES

5A

SHEET: 5A OF 19

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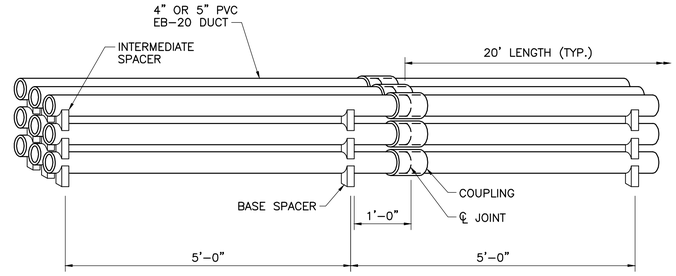
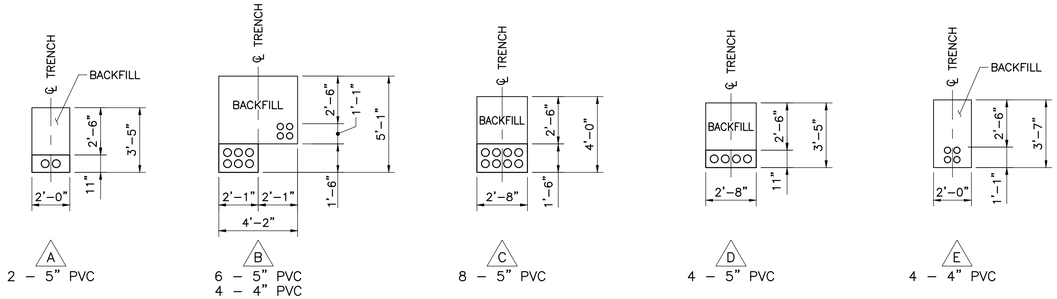


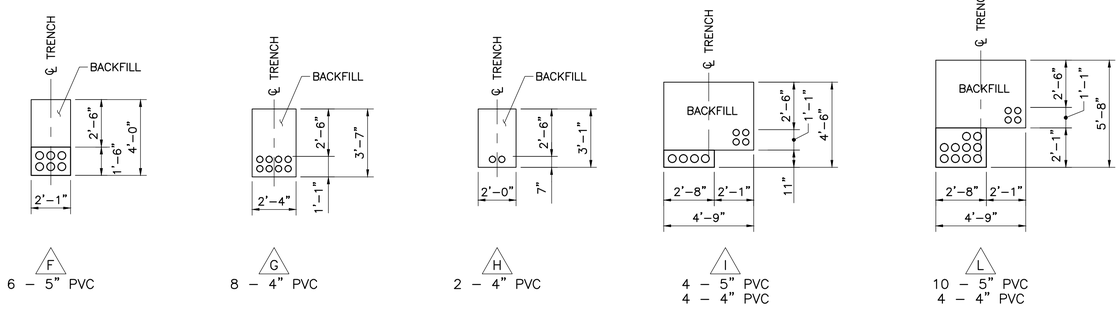
DUCT STACKING DETAIL

NOT TO SCALE – FOR INFORMATION ONLY

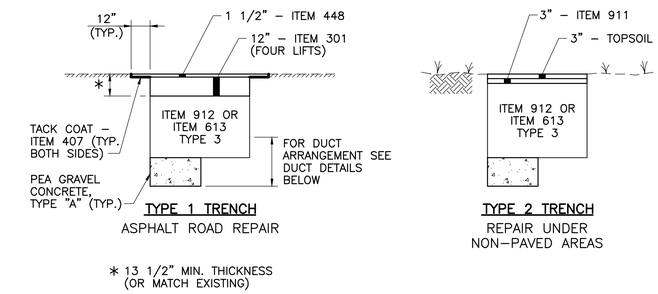
NOTES

TRENCH. ALL 5" PVC DUCT (AEP) SHALL HAVE A 2" MIN. SEPARATION, A 3" MIN. ENVELOPE, AND BE ENCASED IN PEA GRAVEL CONCRETE, CLASS "A". MINIMUM TRENCH WIDTH IS 2'-0". SPACING FOR 4" PVC DUCT SHALL BE THE SAME BUT WITHOUT CONCRETE ENCASEMENT.





POWER AND COMMUNICATION DUCT TRENCH DETAILS



TRENCH AND SURFACE RESTORATION DETAILS

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APPROVED BY:	JLG
SCALE:	NONE

UTILITY CONDUIT
TRENCH DETAILS

6

SHEET: 6 OF 19

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PLOTTED: 5/16/2013 11:53:06 AM

PK NAIL IN ASPHALT
N: 767626.83
E: 1789151.48
Z: 892.14

℄ 1ϕ TRANSFORMER (AEP)
PAD ELEV. 892.25
N: 767670.21
E: 1789144.85

(1) STUB (AEP, TWC)
℄ STA. 4+30.0
N: 767654.60
E: 1789106.97

P.I. – 25' R. CURVE (RT.)
N: 767653.71
E: 1789108.43

(2) AEP RISER (EX. POLE)
N: 767630.25
E: 1789088.77

℄ SWITCH (AEP)
PAD ELEV. 891.55
N: 767661.37
E: 1789169.95

5800 POST ROAD

FUTURE DRIVE

FUTURE PATH

P.I. – 150' R. CURVE (LT.)
N: 767552.52
E: 1789279.47

P.I. – 150' R. CURVE (RT.)
N: 767513.45
E: 1789362.34

P.I. – 150' R. CURVE (LT.)
N: 767488.20
E: 1789388.17

CENTERLINE EX. ROAD

ASPHALT BIKEPATH

CONCRETE PAD

CONCRETE

TILED FIELD

FUTURE WALL

FUTURE DRIVE

POST ROAD

P.I. – 150' R. CURVE (RT.)
N: 767542.03
E: 1789314.04

P.I. – 85' R. CURVE (RT.)
N: 767532.88
E: 1789312.66

STUB (AEP)
N: 767461.70
E: 1789317.86

℄ PRIMARY VAULT (TWC)
N: 767549.77
E: 1789207.27

℄ 1ϕ TRANSFORMER (AEP)
PAD ELEV. 892.44
N: 767590.15
E: 1789156.08

MATCH LINE ℄ STA. 8+00

(3) ELECTRIC MANHOLE (AEP)
T.C. 891.60
℄ STA. 4+93.6
N: 767622.20
E: 1789161.73

(4) TWC RISER (EX. POLE)
N: 767564.93
E: 1789195.63

(C1) CURVE DATA
△ = 13° 43' 52"
R = 150.00
T = 18.06'
L = 35.95'

(C2) CURVE DATA
△ = 13° 43' 52"
R = 150.00'
T = 18.06'
L = 35.95'

(C3) CURVE DATA
△ = 13° 43' 54"
R = 150.00'
T = 18.06'
L = 35.95'

(C4) CURVE DATA
△ = 13° 43' 54"
R = 150.00'
T = 18.06'
L = 35.95'

(C5) CURVE DATA
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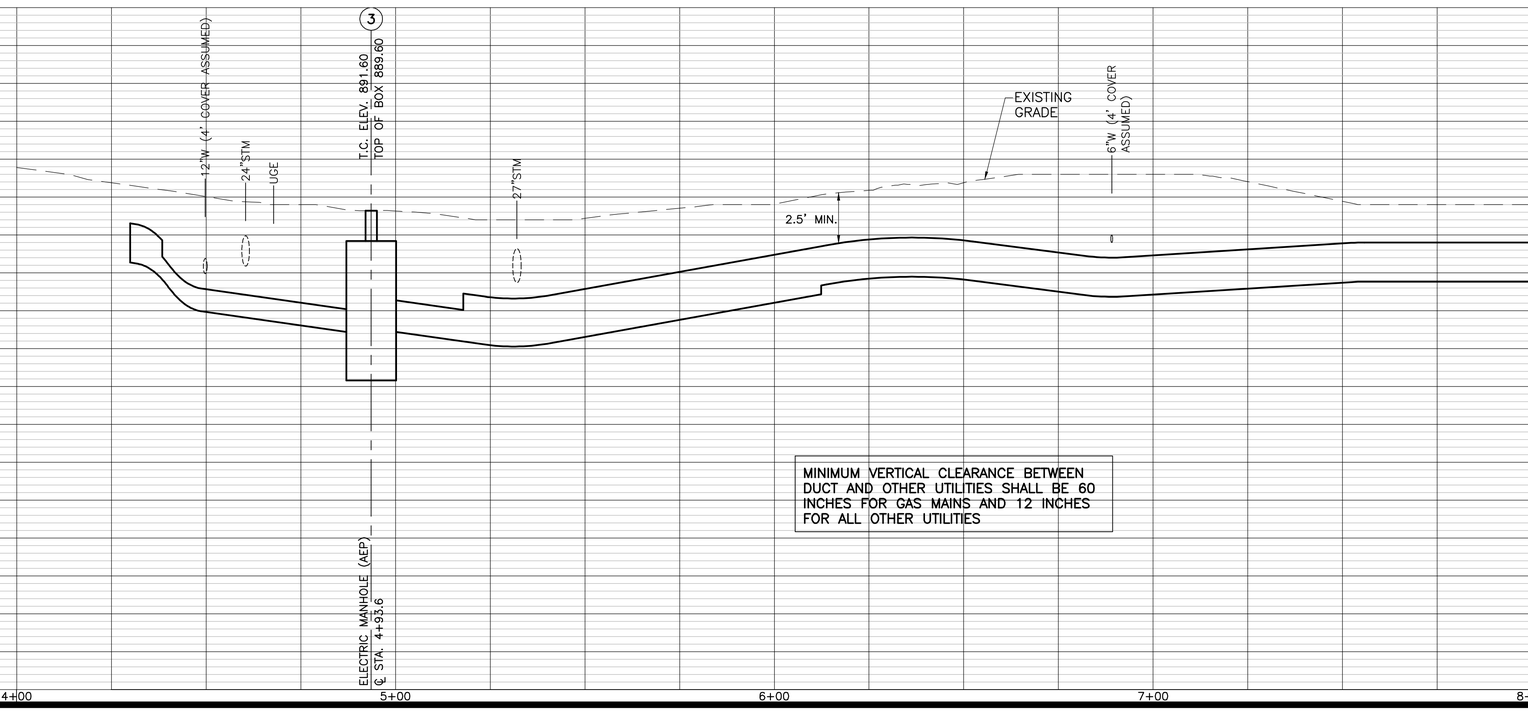
R = 85.00
T = 44.45'
L = 81.91'

TREE PROTECTION FENCING



MINIMUM VERTICAL CLEARANCE BETWEEN DUCT AND OTHER UTILITIES SHALL BE 60 INCHES FOR GAS MAINS AND 12 INCHES FOR ALL OTHER UTILITIES

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

PLAN & PROFILE
℄ STA. 4+30 TO
℄ STA. 8+00

7

SHEET: 7 OF 19

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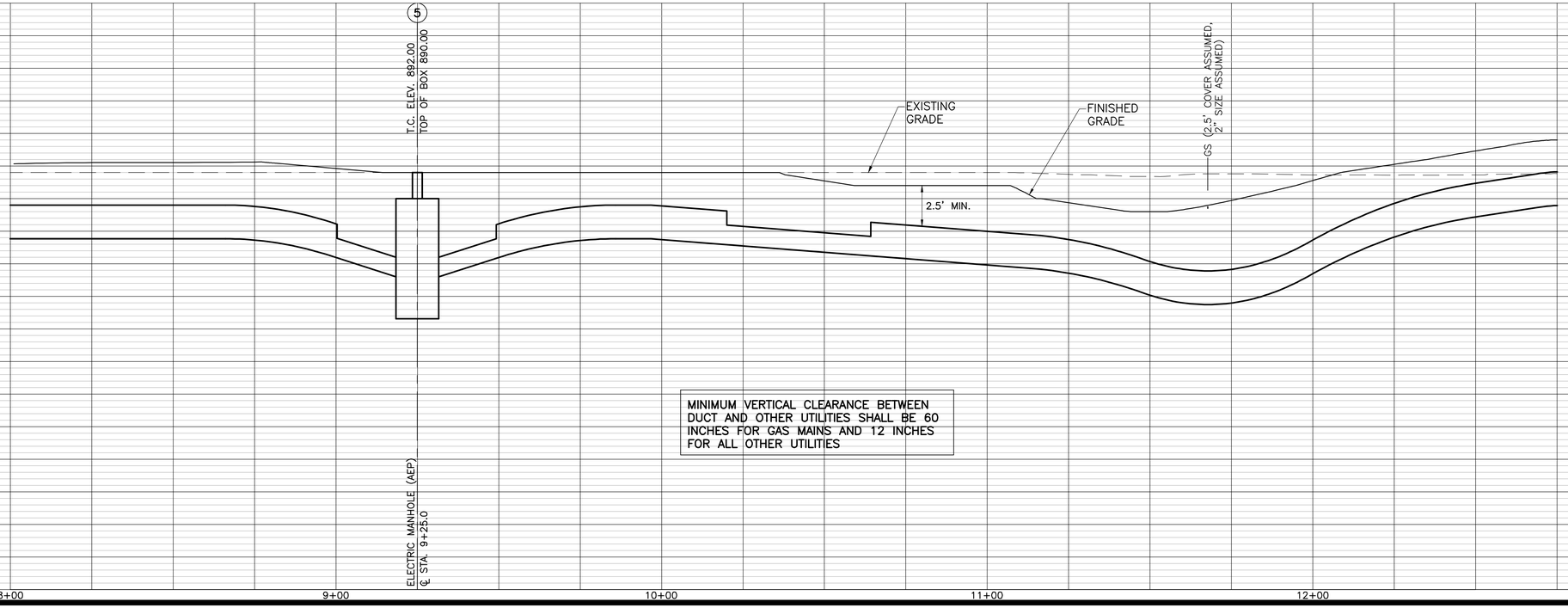
MATCH LINE ℄ STA. 8+00

MATCH LINE ℄ STA. 12+75

ELECTRIC MANHOLE (AEP)
T.C. 892.00
℄ STA. 9+25.0
N: 767403.22
E: 1789531.78

℄ COMM. MANHOLE (TWC)
T.C. 891.72
N: 767319.14
E: 1789688.91

GRASS
GRAVEL
ASPHALT BIKEPATH
CONCRETE
CONCRETE WALK
FUTURE PATH
FUTURE DRIVE
CENTERLINE EX. ROAD
POST ROAD
TILED FIELD
EX-R/W
UGT
24" SAN
6"G
SAN
STM
8+00
9+00
10+00
11+00
12+00



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PLAN & PROFILE
℄ STA. 8+00 TO
℄ STA. 12+75

8

SHEET: 8 OF 19

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PLOTTED: 5/16/2013 11:53:58 AM

MATCH LINE ℄ STA. 12+75

SEE SHEET 13 FOR DUCT PLAN AND PROFILE

CENTERLINE EX. ROAD

POST ROAD

STUB (TWC)
N: 767118.46
E: 1790094.74

STUB (TWC)
N: 767080.66
E: 1790192.65

℄ 3ϕ TRANSFORMER (AEP)
PAD ELEV. 882.67
N: 767090.20
E: 1790205.49

P.I. – 1,200' R. CURVE (RT.)
N: 766997.08
E: 1790232.96

P.I. – 20' R. CURVE (RT.)
N: 767040.75
E: 1790169.53

ELECTRIC MANHOLE (AEP)
T.C. 888.83
℄ STA. 15+06.7 (W,E)
℄ STA. 0+00.0 (N)
N: 767111.64
E: 1790035.17

STUB (AEP)
N: 767074.83
E: 1790013.85

℄ COMM. MANHOLE (TWC)
T.C. 888.09
N: 767092.78
E: 1790079.86

℄ COMM. MANHOLE (TWC)
T.C. 883.45
N: 767016.53
E: 1790209.30

CURVE DATA
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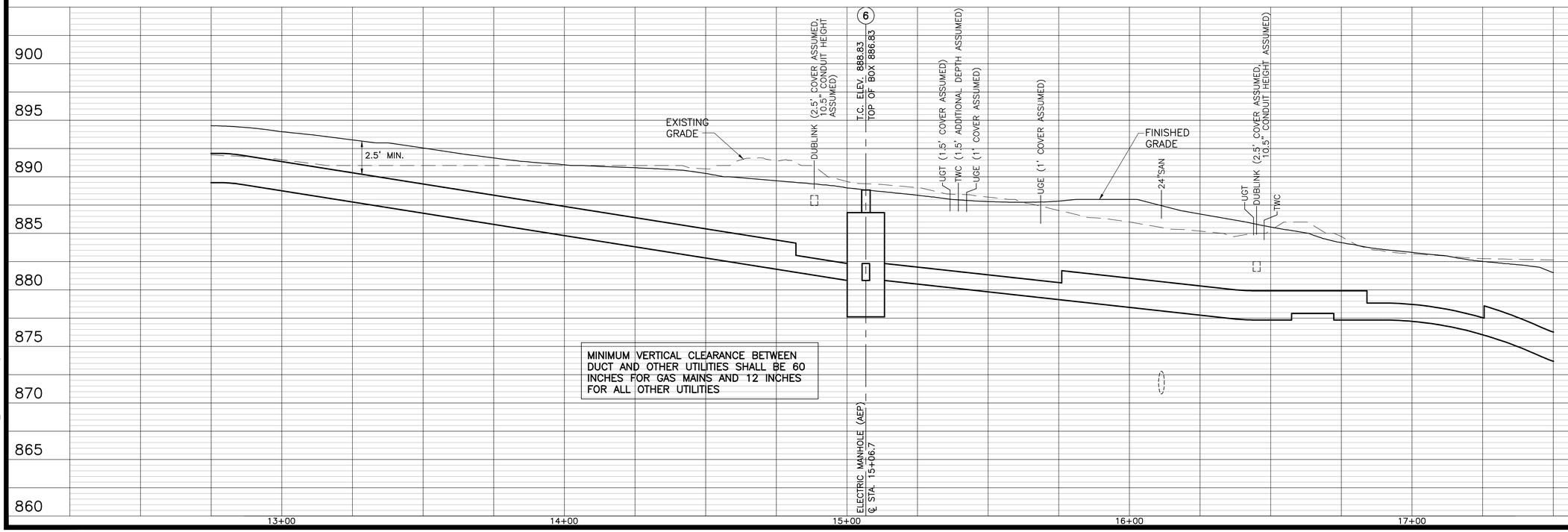
T = 79.94'
L = 159.64'

TREE PROTECTION FENCING

MATCH LINE ℄ STA. 17+50



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PLAN & PROFILE
℄ STA. 12+75 TO
℄ STA. 17+50

9

SHEET: 9 OF 19

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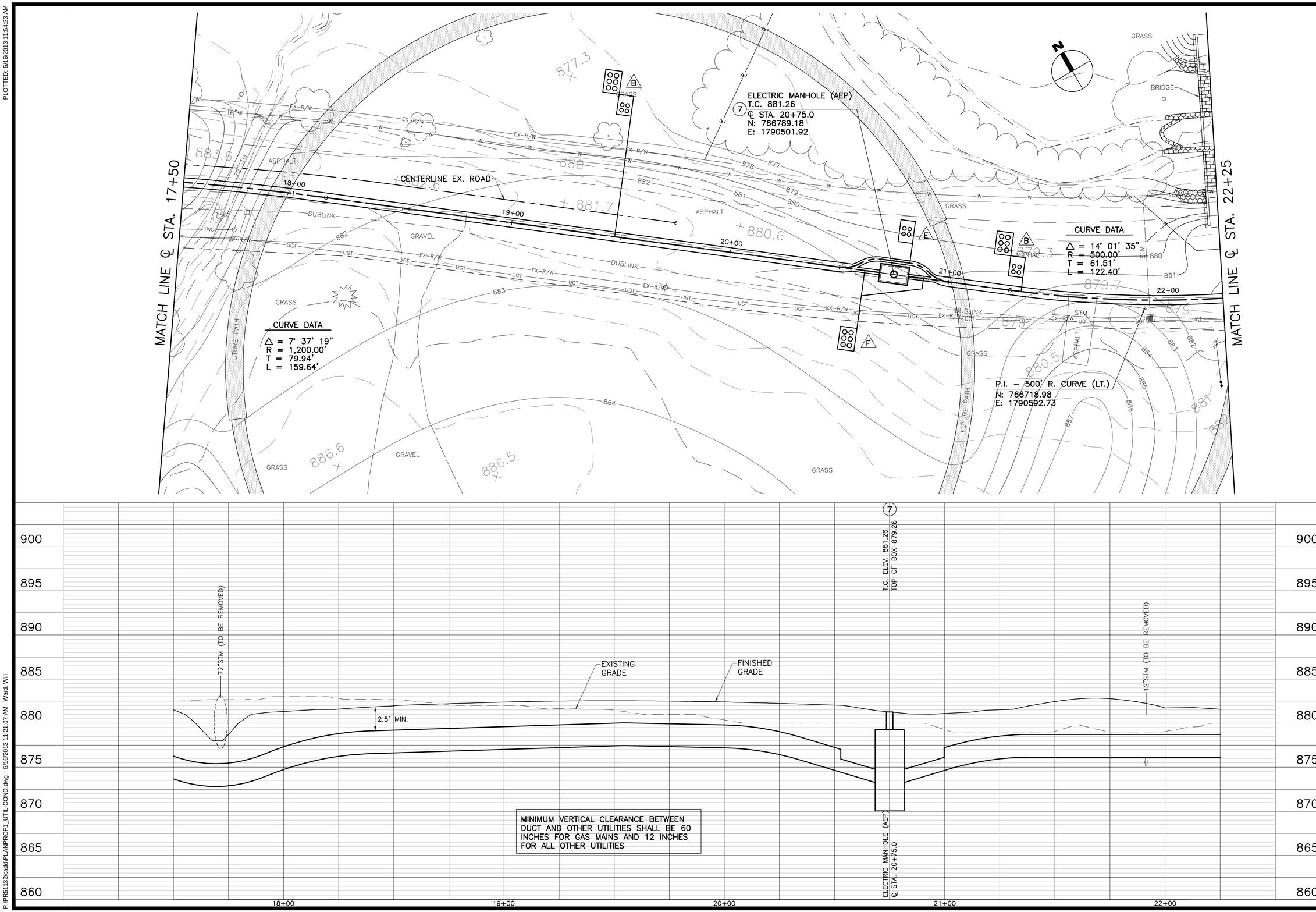

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PLAN & PROFILE
℄ STA. 17+50 TO
℄ STA. 22+25

10

SHEET: 10 OF 19

PLOTTED: 5/16/2013 11:54:23 AM

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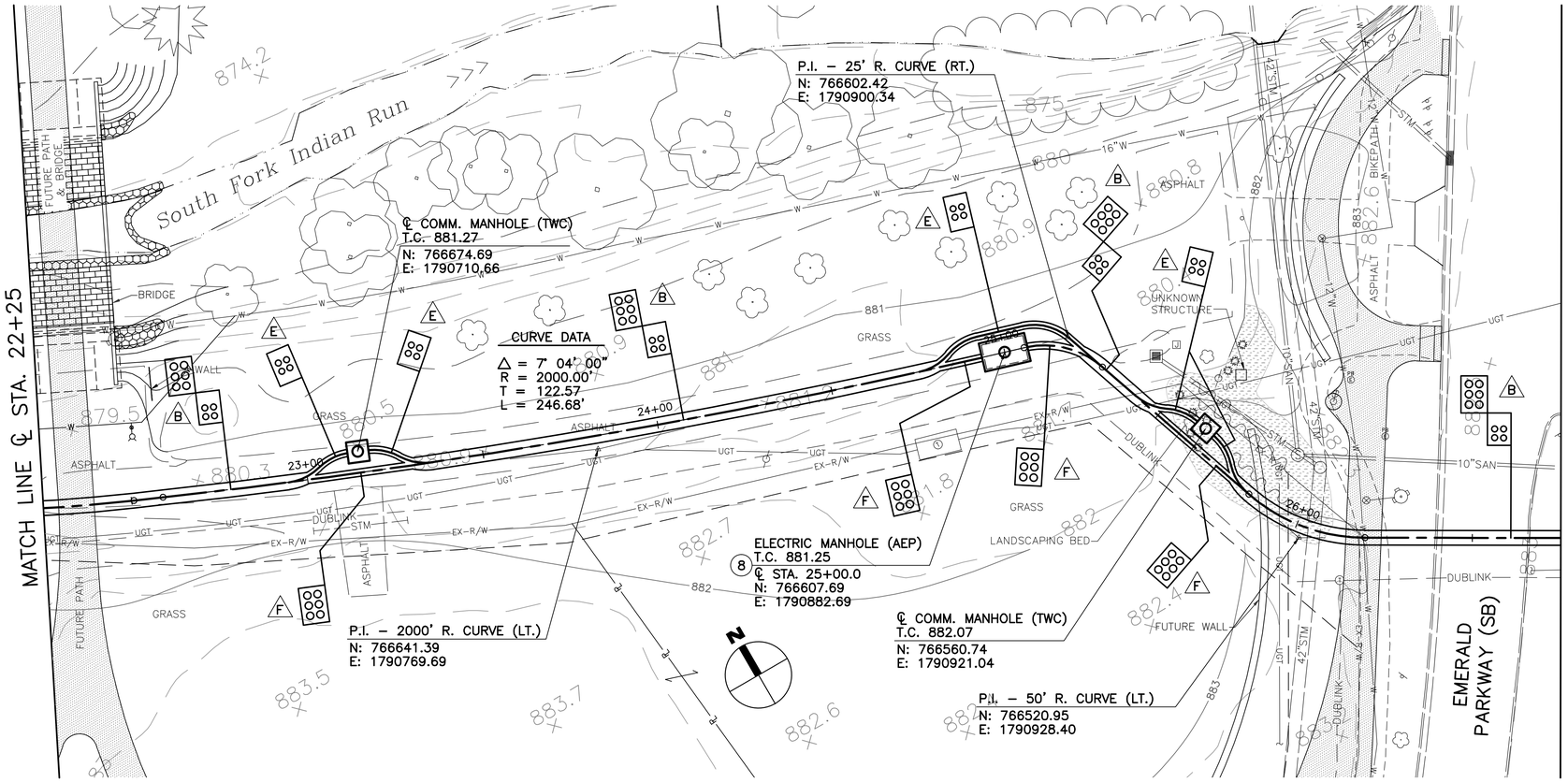

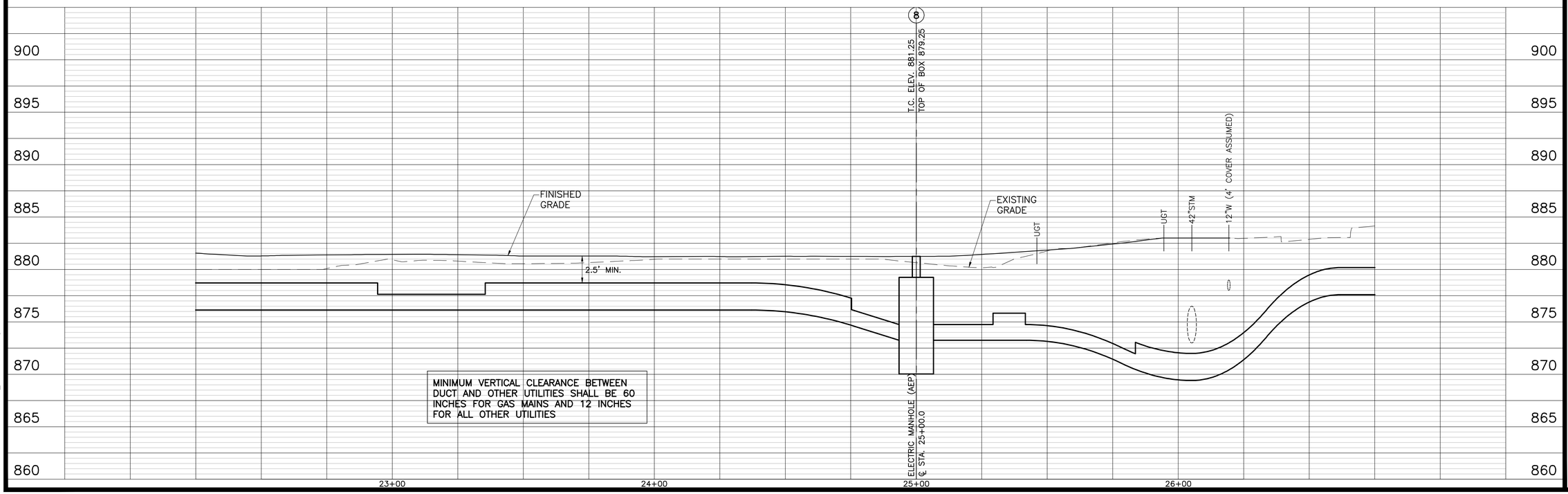

MINIMUM VERTICAL CLEARANCE BETWEEN DUCT AND OTHER UTILITIES SHALL BE 60 INCHES FOR GAS MAINS AND 12 INCHES FOR ALL OTHER UTILITIES

BURGESS & NIPLE
5085 REED ROAD
COLUMBUS, OHIO 43220

CITY OF DUBLIN, OHIO
COFFMAN PARK EXPANSION
POST ROAD UTILITY BURIAL

NO.	DESCRIPTION REVISIONS	DATE

JOB NO:	PR51132
DATE:	MAY 2013
DESIGNED BY:	JED
DRAWN BY:	MDS
CHECKED BY:	JED
APPROVED BY:	JLG
SCALE:	1"=20'H 1"=5'V

PLAN & PROFILE
℄ STA. 22+25 TO
℄ STA. 26+75

11

SHEET: 11 OF 19

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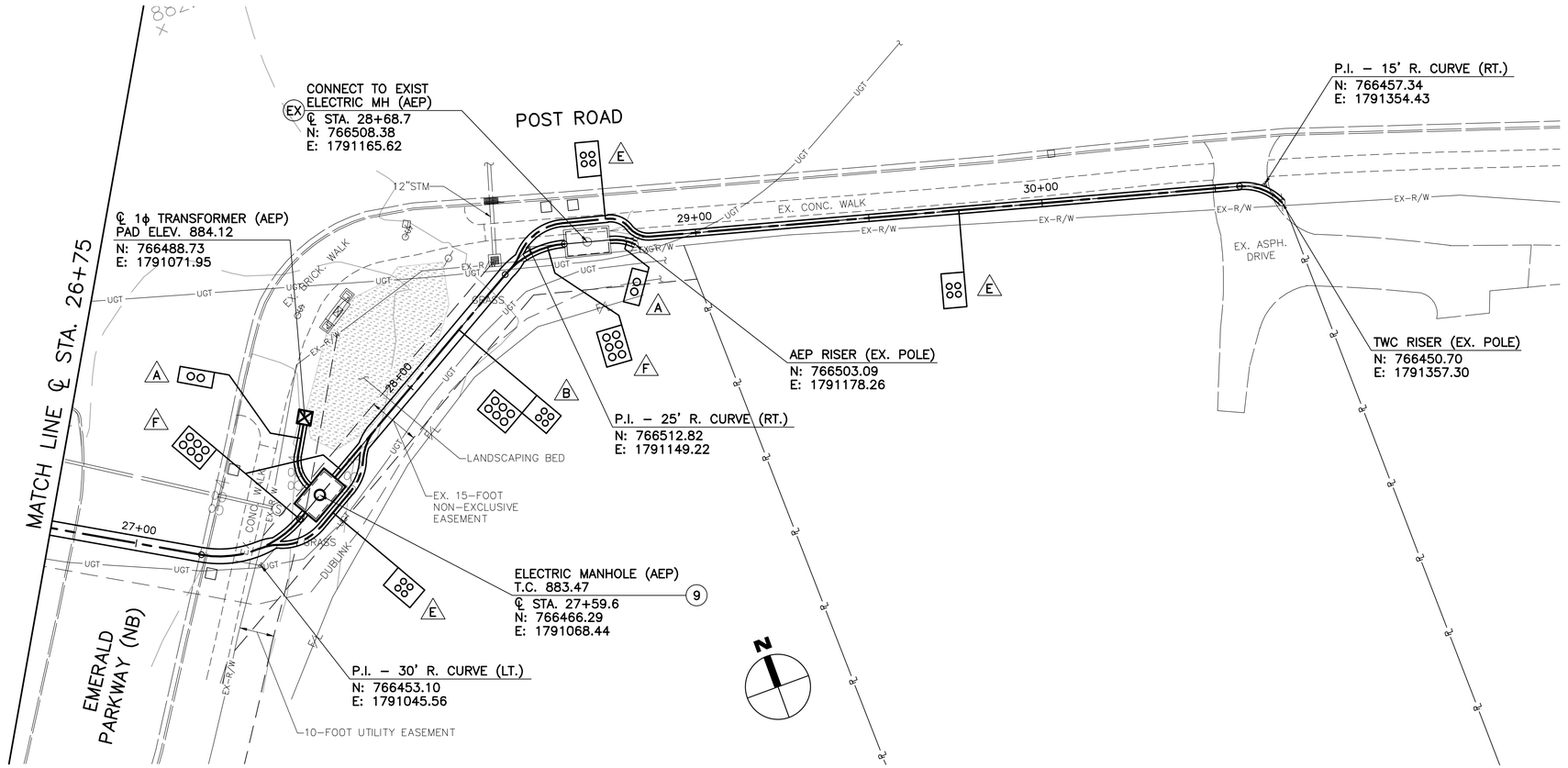

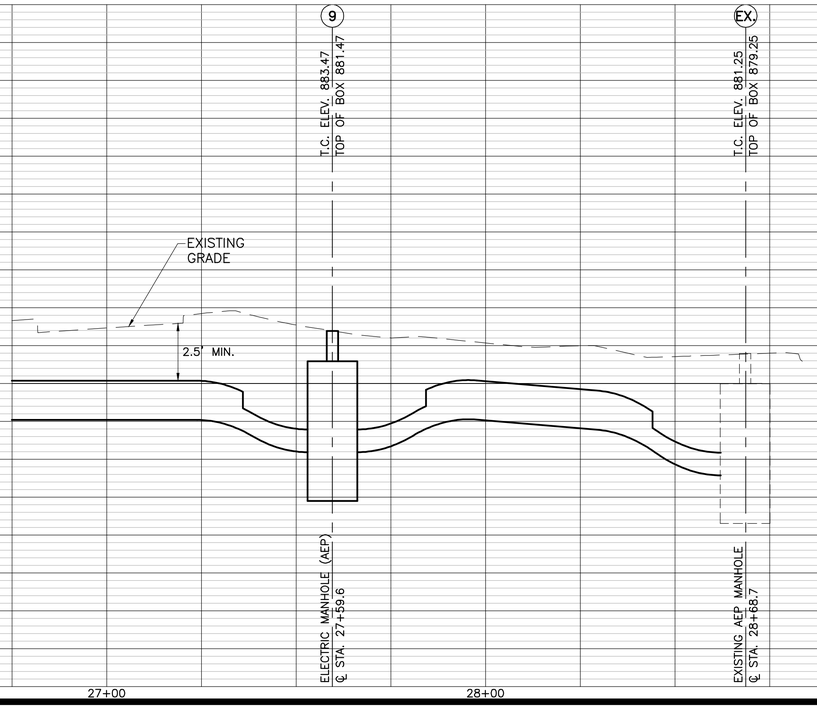

MINIMUM VERTICAL CLEARANCE BETWEEN DUCT AND OTHER UTILITIES SHALL BE 60 INCHES FOR GAS MAINS AND 12 INCHES FOR ALL OTHER UTILITIES

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PLAN & PROFILE
℄ STA. 26+75 TO
℄ STA. 28+68.7

12

SHEET: 12 OF 19

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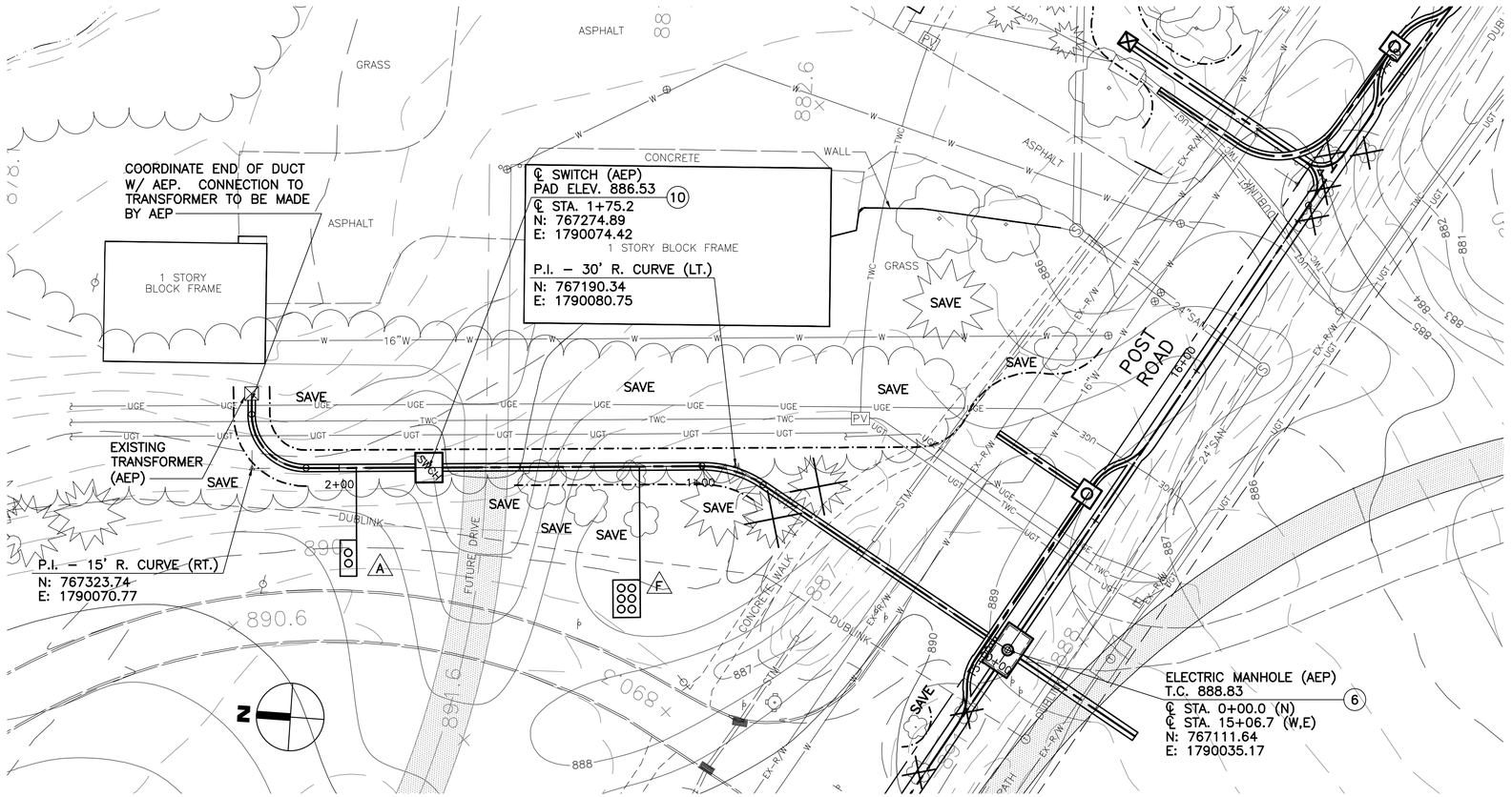

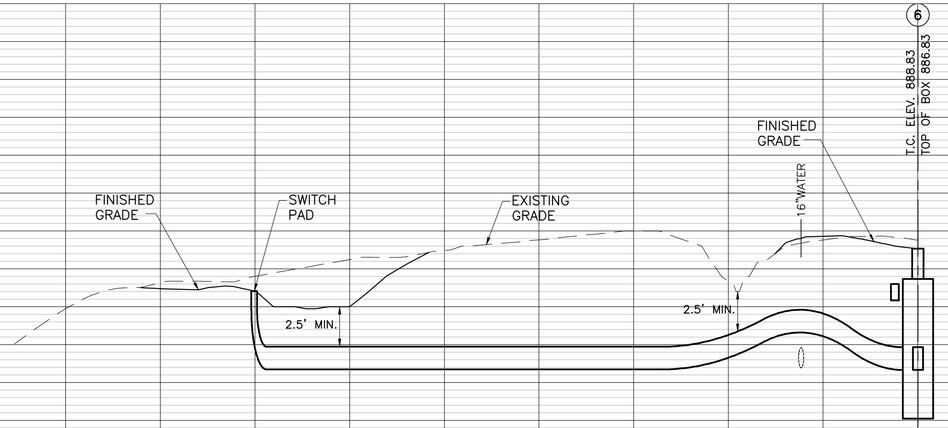

MINIMUM VERTICAL CLEARANCE BETWEEN DUCT AND OTHER UTILITIES SHALL BE 60 INCHES FOR GAS MAINS AND 12 INCHES FOR ALL OTHER UTILITIES

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MAINTENANCE BUILDING SPUR PLAN

13

SHEET: 13 OF 19

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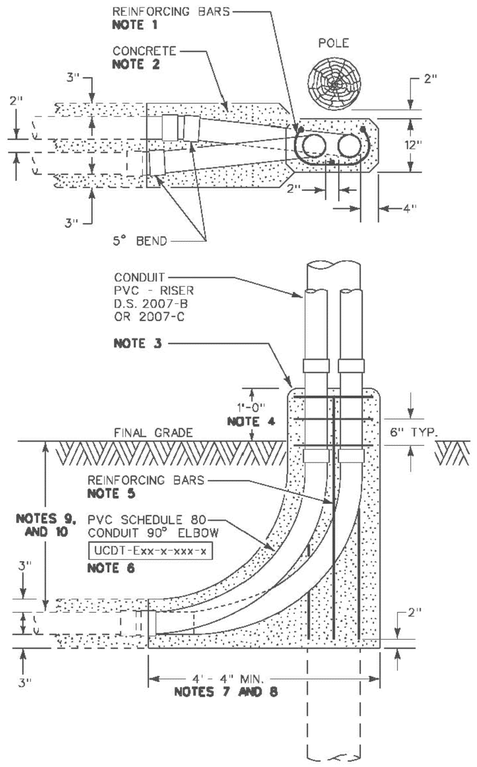
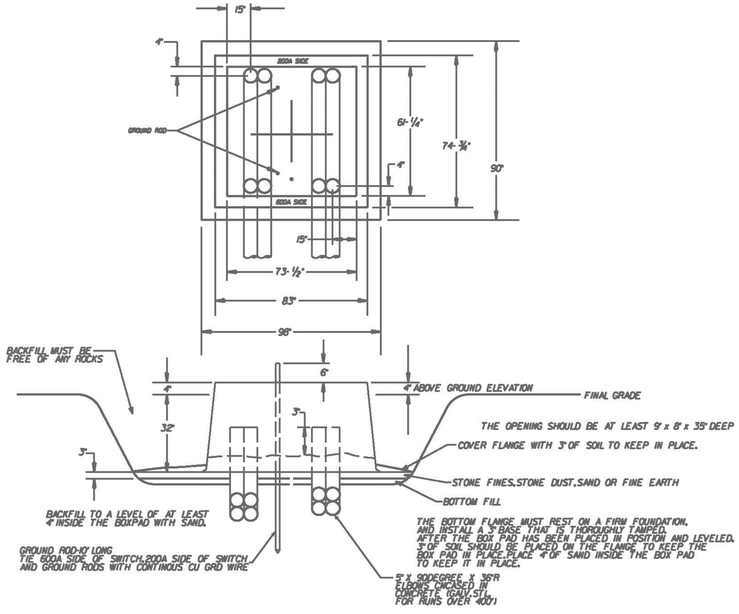
NOTES:

1. THREE HORIZONTAL REINFORCING BARS; 1/4" STEEL (NO. 2 PLAIN ROUND) ASTM-A615 GRADE 40KSI.
2. 3000 PSI AT 28 DAYS; 5% ± 1% AIR ENTRAINED.
3. SLOPE FINISHED TOP TO DRAIN WATER.
4. INCREASE TO 3 FEET WHEN IN CONGESTED AREAS. EXTEND HORIZONTAL REINFORCING BARS WITH SHOWN SPACING.
5. THREE VERTICAL REINFORCING BARS; 1/2" STEEL (NO. 4 DEFORMED) ASTM-A615 GRADE 40KSI.
6. ENGINEER TO SPECIFY SIZE AND DIRECTION OF CONDUIT.
7. SLOPE DUCT LINE TO VAULT OR MANHOLE.
8. CONCRETE ENCASEMENT SHALL TERMINATE AT SHOWN DIMENSION FOR DIRECT BURIED CONDUIT SYSTEMS. ENGINEER SHALL SPECIFY CONCRETE ARRANGEMENT TO TIE INTO OTHER UNDERGROUND SYSTEMS.
9. BURIAL DEPTH FOR DIRECT BURIED CABLE OR CONDUIT IS DEFINED AS THE DISTANCE BETWEEN FINAL GRADE AND THE TOP OF THE CABLE OR CONDUIT. DIRECT BURIED PRIMARY SUPPLY CABLES OR CONDUITS SHALL BE INSTALLED AT A BURIAL DEPTH OF NOT LESS THAN 3'-0" AND SECONDARY SUPPLY CABLES OR CONDUITS SHALL BE INSTALLED AT A BURIAL DEPTH OF NOT LESS THAN 2'-6". THESE INITIAL DEPTHS ARE TO ALLOW FOR CHANGES TO SURFACE CONDITIONS. LOCAL AGREEMENTS AND CODES MAY REQUIRE ADDITIONAL DEPTH. IF THERE ARE KNOWN, EXTENSIVE CHANGES TO THE FINAL GRADE SUCH THAT THESE DEPTHS ARE NOT MAINTAINED CORRECTIVE ACTION SHALL BE TAKEN.
10. BURIAL DEPTH FOR CONCRETE ENCASED CONDUITS IS THE DISTANCE BETWEEN FINAL GRADE AND THE TOP OF THE CONCRETE. CONCRETE ENCASED CONDUITS (DS 2060) SHOULD BE INSTALLED AT A BURIAL DEPTH OF 30 INCHES. DEPTHS LESS THAN THIS MAY BE ACCEPTABLE AFTER AN ENGINEERING EVALUATION.
11. TERMINATION OF UNDERGROUND CONDUIT AT RISER POLES WILL NOT BE PAID SEPARATELY. ALL COST FOR RISER CONSTRUCTION SHALL BE INCLUDED IN THE RELATED DUCT ITEMS.



TERMINATION OF UNDERGROUND CONDUIT AT RISER POLES

ALL DISTRIBUTION VOLTAGES
CONCRETE ENCASED, MULTI-RISERS OR SINGLE RISER

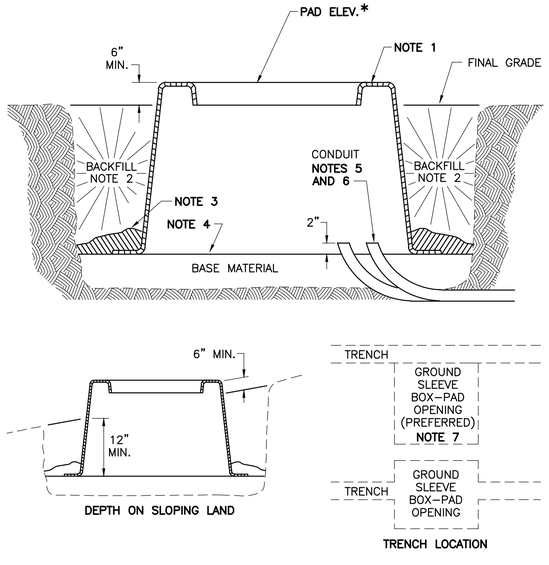


BOX PAD DETAIL

NOTES:

1. FINAL PAD/SLEEVE INSTALLATION SHALL BE LEVEL AS MEASURED BY A CARPENTER'S LEVEL IN ALL DIRECTIONS.
2. DO NOT BACKFILL WITH CHUNKS OF FROZEN MATERIAL OR ROCKS. PACK LOOSE BACKFILL BY FOOT TAMPING. HYDRAULIC TAMPING IS NOT RECOMMENDED. DO NOT BACKFILL WITH SAND.
3. BACKFILLING MAY BE DELAYED SO THAT LINE PERSONNEL CAN STAND IN THE EXCAVATION AND WORK THE EQUIPMENT AT WAIST-HEIGHT. WHEN THIS IS DONE COVER THE FLANGE WITH 3 INCHES OF FILL TO HOLD THE PAD IN PLACE.
4. EXCAVATE THE AREA 4 TO 6 INCHES DEEPER THAN FINAL BURIAL DEPTH. BACKFILL WITH BASE MATERIAL AND THOROUGHLY TAMP. CRUSHED STONES PREFERRED FOR BASE MATERIAL. STONE DUST, SAND OR FINE EARTH ARE ACCEPTABLE.
5. CONDUIT NUMBER, SIZE, LOCATION AND DIRECTION TO BE SPECIFIED BY ENGINEER. CONDUIT MAY BE FLEXIBLE OR SCHEDULE 40 PVC CONDUIT, WITH 36 INCH RADIUS BENDS.
6. CUT CONDUIT EXTENDING INTO BOX PAD/GROUND SLEEVE AS SHOWN TO MAXIMIZE FLEXIBILITY OF CABLE.
7. WHEN THE CABLE IS INSTALLED IN CONDUIT THE NUMBER OF BENDS REQUIRED BY THIS TRENCH LOCATION MAY NOT PERMIT ITS USE BECAUSE OF CABLE PULLING PROBLEMS.

*** SEE PLAN AND PROFILE SHEETS FOR PAD ELEVATION.**



BOX PAD/GROUND SLEEVE INSTALLATION

PAD FOR TRANSFORMERS NO LARGER THAN 38" DEEP

SYNTHETIC
CID 66481500
UPAD-S-1X-38-FP

OR

POLYMER CONCRETE
CID 66482100
UPAD-P-1X-38-FP

PAD FOR TRANSFORMERS NO LARGER THAN 44" DEEP

CONCRETE
CID 66481460
UPAD-C-1X-44-FP

PAD FOR TRANSFORMERS NO LARGER THAN 50" DEEP

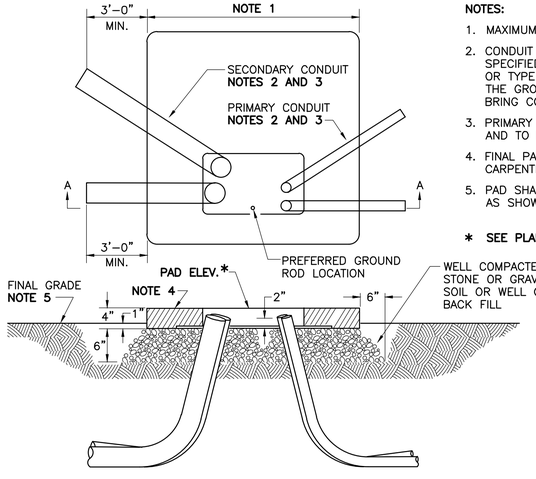
SYNTHETIC
CID 66481700
UPAD-S-1X-50-FP

OR

CONCRETE
CID 66481470
UPAD-C-1X-50-FP

OR

POLYMER CONCRETE
CID 66482400
UPAD-P-1X-50-FP



FLAT PAD FOR SINGLE PHASE TRANSFORMERS

NOTES:

1. MAXIMUM TRANSFORMER WIDTH 38" (42" WIDTH WITH FINS).
2. CONDUIT NUMBER, SIZE, LOCATION AND DIRECTION TO BE SPECIFIED BY ENGINEER. CONDUIT CAN BE FLEXIBLE CONDUIT, OR TYPE EB PVC CONDUIT OR 90° BENDS. AVOID DISTURBING THE GROUND UNDER REAR OF PAD. TO MINIMIZE SETTLING, BRING CONDUITS TO FRONT OR SIDES WHEN EVER POSSIBLE.
3. PRIMARY AND SECONDARY CONDUITS TO ENTER PAD AS SHOWN AND TO BE ANGLED TOWARDS THEIR RESPECTIVE BUSHINGS.
4. FINAL PAD INSTALLATION SHALL BE LEVEL AS MEASURED BY CARPENTER'S LEVEL FOR ALL DIRECTIONS.
5. PAD SHALL BE INSTALLED SO THAT FINAL GRADE SHALL BE AS SHOWN.

*** SEE PLAN AND PROFILE SHEETS FOR PAD ELEVATION.**

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APPROVED BY:	JLG
SCALE:	NONE

AEP CONDUIT AND PAD DETAILS

14

SHEET: 14 OF 19

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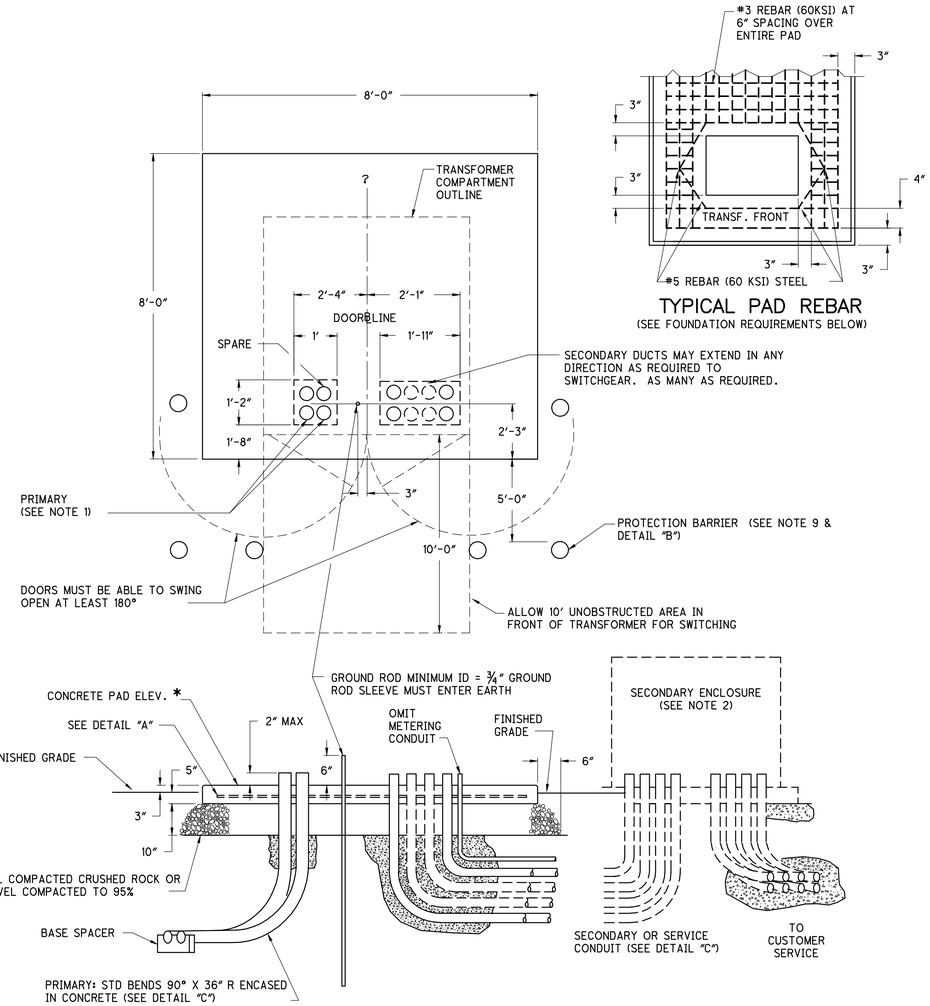
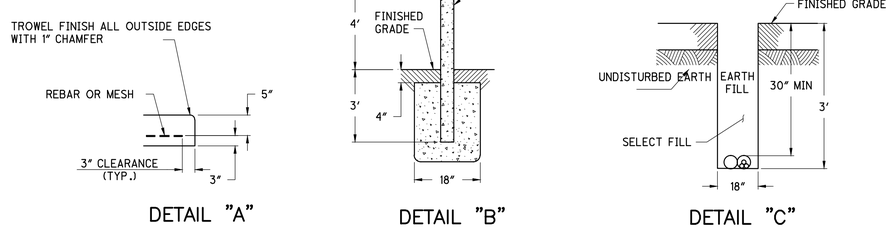


TYPICAL PAD REBAR
(SEE FOUNDATION REQUIREMENTS BELOW)



DETAIL "A" DETAIL "B" DETAIL "C"

15KV TRANSFORMER PAD (AEP)

ITEM SPECIAL – 3 PHASE PAD MOUNT TRANSFORMER FOUNDATION

1. DUCTS THAT WILL HAVE PRIMARY CABLE ARE TO BE INSTALLED SIDE BY SIDE TOWARDS THE FRONT OF THE PAD. PRIMARY DUCTS MAY EXTEND IN ANY DIRECTION AS REQUIRED TO TERMINAL POLE. DO NOT INSTALL MORE THAN 2 ELBOWS TO A TERMINAL POLE.
2. A SECONDARY ENCLOSURE IS NOT REQUIRED FOR THIS PROJECT.
3. AFTER PRIMARY AND SECONDARY CONDUITS ARE IN PLACE, THE AREA FOR THE TRANSFORMER FOUNDATION MUST BE THOROUGHLY COMPACTED BEFORE PLACING CRUSHED STONE OR GRAVEL AND BEFORE POURING FOUNDATION.
4. CONCRETE TO BE CITY OF COLUMBUS OR STATE OF OHIO DEPARTMENT OF TRANSPORTATION CLASS "C" WITH 6% TO 8% AIR ENTRAINMENT, 2"–4" SLUMP, AND 3500 PSI MINIMUM. PAD TO BE CONSTRUCTED WITH A MINIMUM 3 INCH COVER OVER ALL REBAR. WIRE MESH WITH A MINIMUM CROSS–SECTIONAL AREA OF 0.175 SQUARE INCHES PER FOOT OF PAD WIDTH MAY BE USED IN PLACE OF REBAR.
5. THE TYPE, THICKNESS, AND REINFORCING OF THE FOUNDATION IS A MINIMUM DESIGN, ACTUAL FOUNDATION FURNISHED MAY EXCEED THESE REQUIREMENTS, BUT MUST BE APPROVED BY AEP ENGINEERING. PRIMARY AND SECONDARY MUST COME THROUGH THE FOUNDATION IN DESIGNATED AREAS.
6. THE FOUNDATION SHALL BE LOCATED AWAY FROM WINDOWS, DOORS, FIRE ESCAPES, ENTRANCES, AND VENTILATING DUCTS. THE LOCATION MUST COMPLY WITH THE NATIONAL ELECTRICAL CODE FOR OIL INSULATED TRANSFORMERS INSTALLED OUTDOORS.
7. THE FOUNDATION SHALL BE PLACED 3'–0" HORIZONTALLY FROM BUILDING OR STRUCTURE. SINGLE–STORY BUILDINGS WITH ROOF OVERHANGS REQUIRE THAT THE FOUNDATION BE PLACED NO CLOSER THAN 3'–0" HORIZONTALLY OUT FROM THE EDGE OF THE OVERHANG. A 10' UNOBSTRUCTED AREA IN FRONT OF THE TRANSFORMER IS REQUIRED FOR SWITCHING.
8. THE CUSTOMER SHALL BE RESPONSIBLE FOR OBTAINING ANY INSPECTIONS OR APPROVALS NECESSARY TO ENSURE COMPLIANCE WITH ALL APPLICABLE BUILDING OR FIRE CODES, AND LOCAL ORDINANCES AND LAWS.
9. PROTECTION BARRIER. 4" MIN. STEEL POSTS FILLED WITH CONCRETE AND SET IN CONCRETE, MINIMUM HEIGHT 4 FEET, MUST BE PROVIDED. LOCATIONS SHALL BE SPECIFIED BY THE AEP ENGINEER TO INSURE ACCESS TO TRANSFORMER. BARRIERS SHALL BE PLACED SO THAT BOTH TRANSFORMER DOORS CAN FREELY SWING OPEN AT LEAST 180'. NO NEW BARRIERS SHALL BE PLACED OR EXISTING ONES MOVED AFTER TRANSFORMER INSTALLATION. ANY EXCEPTIONS TO THIS RULE MUST BE APPROVED BY THE AEP ENGINEER IN WRITING, AFTER CONSULTING THE APPLICABLE LINE DEPARTMENT.
10. BASIS OF PAYMENT. THE COST FOR CONSTRUCTION OF CONCRETE FOUNDATIONS FOR 3–PHASE PAD MOUNT TRANSFORMERS AND THE ASSOCIATED PROTECTION BARRIERS WILL BE PAID AT THE UNIT PRICE BID PER EACH FOR ITEM SPECIAL, 3–PHASE PAD MOUNT TRANSFORMER FOUNDATION, INCLUDING ALL EXCAVATION, BASE, CONCRETE, REINFORCEMENTS, STEEL POSTS, BACKFILL, AND GRADING, COMPLETE AND READY FOR PLACEMENT OF EQUIPMENT BY THE UTILITY COMPANY.

* **SEE PLAN AND PROFILE SHEETS FOR PAD ELEVATION.**

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APPROVED BY:	JLG
SCALE:	NONE

AEP 3 PHASE TRANSFORMER PAD

15

SHEET: 15 OF 19

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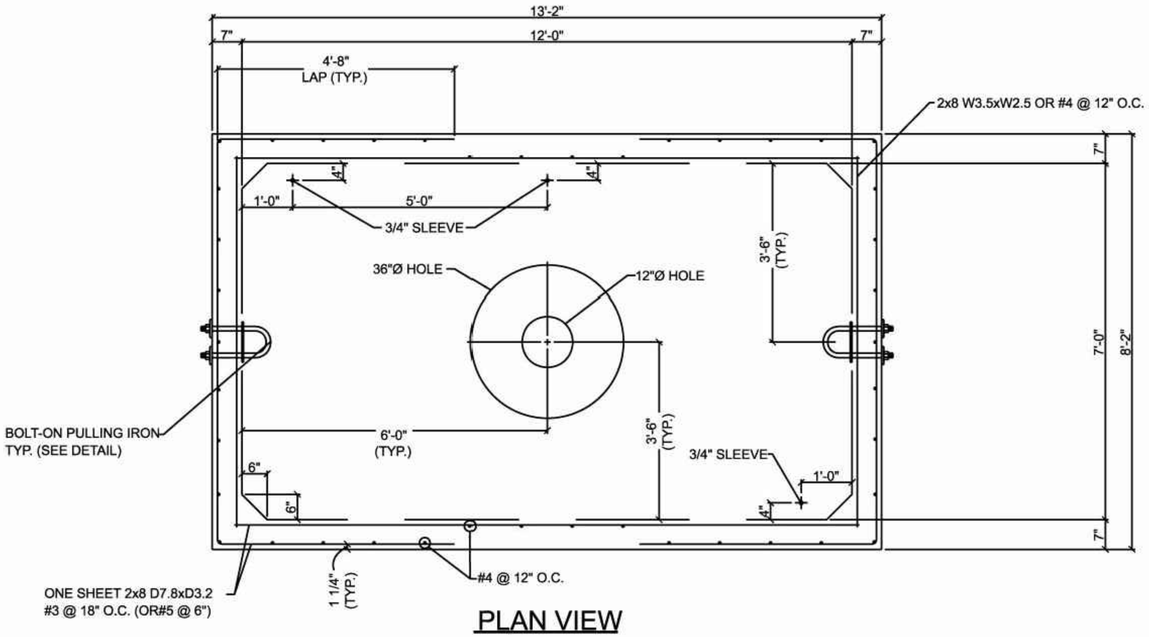
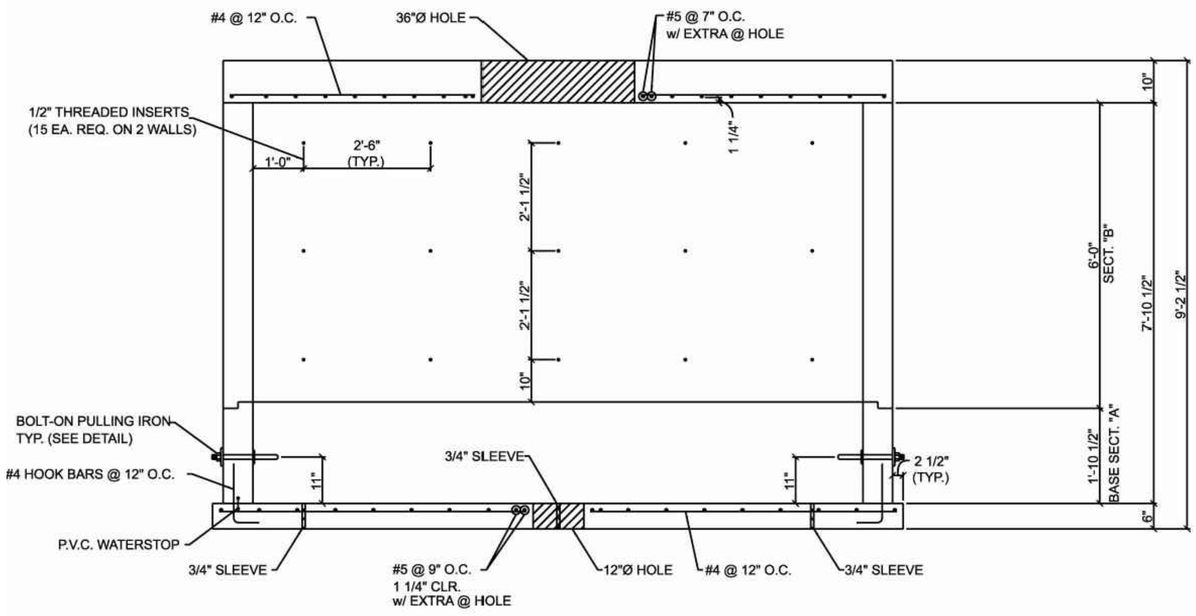
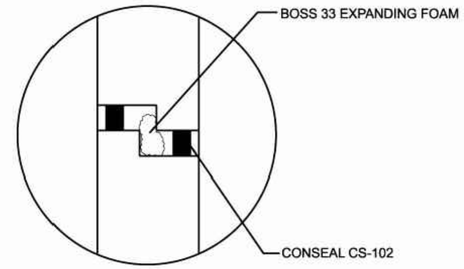


PLAN VIEW



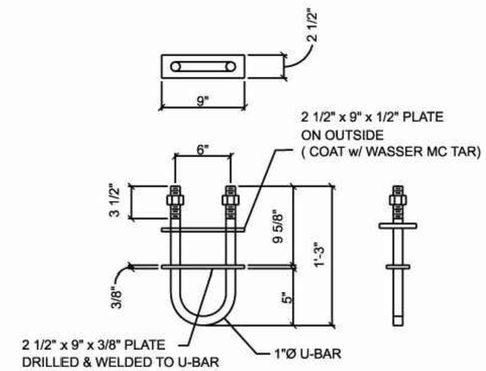
ELEVATION VIEW



JOINT DETAIL

WEIGHTS:

BASE SECTION "A": 15,600#
SECTION "B": 21,700#
TOP SLAB: 13,300#



BOLT-ON PULLING IRON DETAIL

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AEP PRECAST
ELECTRIC
MANHOLE

16

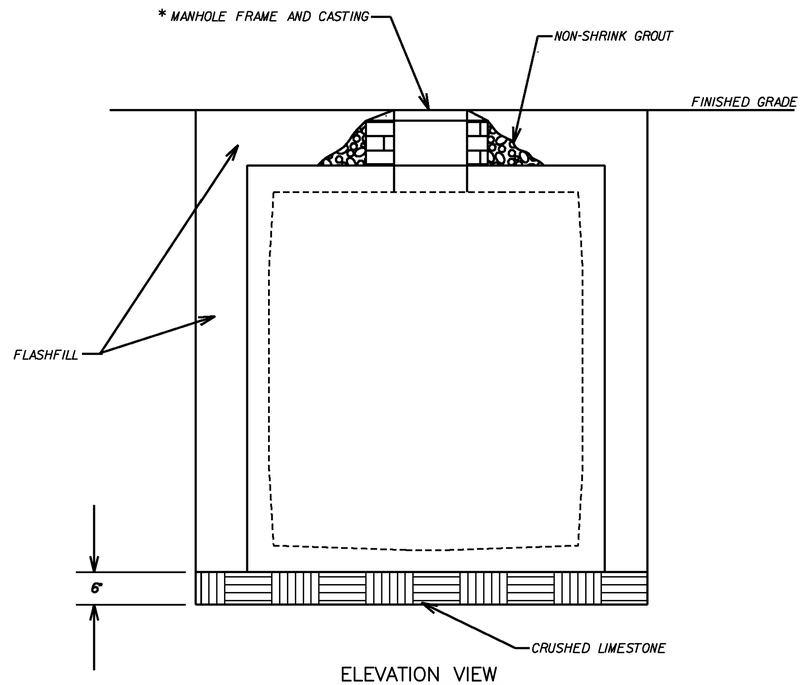
SHEET: 16 OF 19

P:\PR51132\cadd\DETAILS_UTIL-COND.dwg 5/1/2013 2:21:35 PM Ward, Will

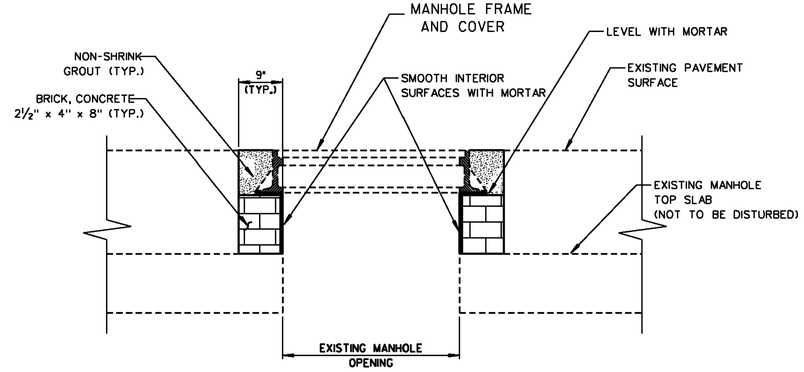
PLOTTED: 5/16/2013 11:50:42 AM

GENERAL NOTES

1. GROUT SHALL BE NON-SHRINK GROUT WITH A COMPRESSIVE SURFACES STRENGTH OF 5,000 PSI AT 7 DAYS. CONCRETE RECEIVING GROUT SHALL BE CLEAN AND FREE OF DEBRIS AND OTHER FOREIGN SUBSTANCES.
2. TOP ELEVATION, TRANSVERSE AND LONGITUDINAL SLOPE SHALL MATCH EXISTING.
3. TRAFFIC SHALL NOT BE ALLOWED ON THE STRUCTURE FOR A MINIMUM OF 7 DAYS FROM THE COMPLETION OF THE CONSTRUCTION
4. ANY PAVEMENT DAMAGE BEYOND THE WORK LIMITS THAT OCCURED DUE TO CONSTRUCTION, SHALL BE REPAIRED.



ELEVATION VIEW



MANHOLE RISER DETAIL

* SEE PLAN AND PROFILE SHEETS FOR TOP OF CASTING ELEVATION.

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AEP PRECAST ELECTRIC MANHOLE

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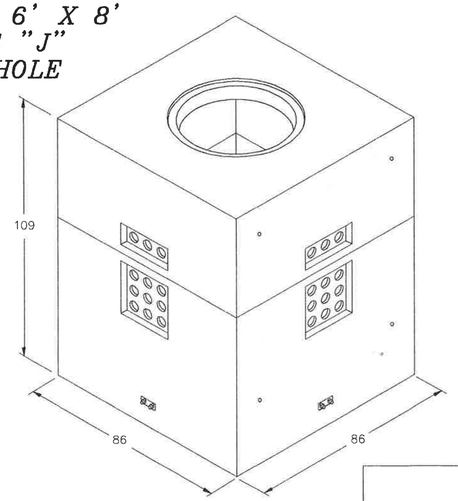
6' X 6' X 8' TYPE "J" MANHOLE

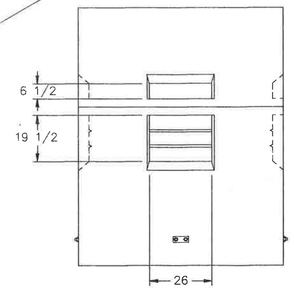


MANHOLE WITH
DUCT TERMINATORS
CASTING NO. 10–062T

DIMENSIONS

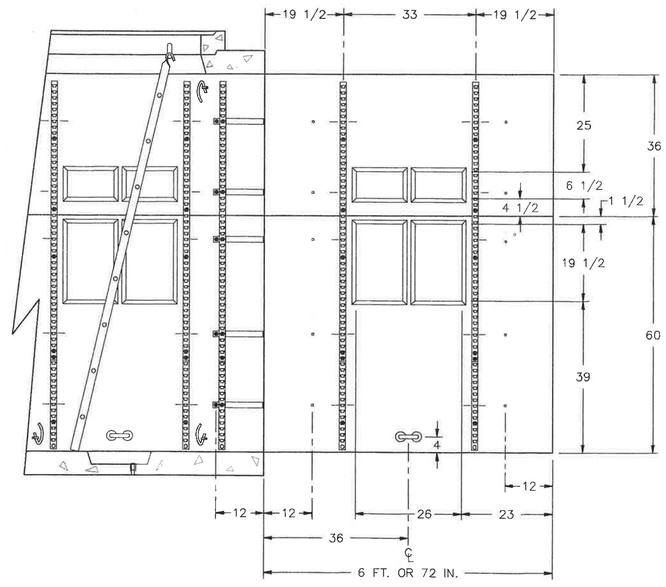
	LENGTH IN.	WIDTH IN.	HEIGHT IN.
INSIDE	72	72	96
OUTSIDE	86	86	109
RECOMMENDED HOLE SIZE	134	134	–

THICKNESS IN.			WEIGHT LBS.
WALL	7	TOP	10,550
ROOF	6	BOTTOM	16,450
FLOOR	7	TOTAL	27,000



TWC MANHOLE WITH KNOCKOUTS
CASTING NO. 10–062K R3/96 10/90

6' X 6' X 8' "J" SIDE AND END WALL STANDARD KNOCKOUTS



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TWC PRECAST
COMMUNICATIONS
MANHOLE

18

SHEET: 18 OF 19

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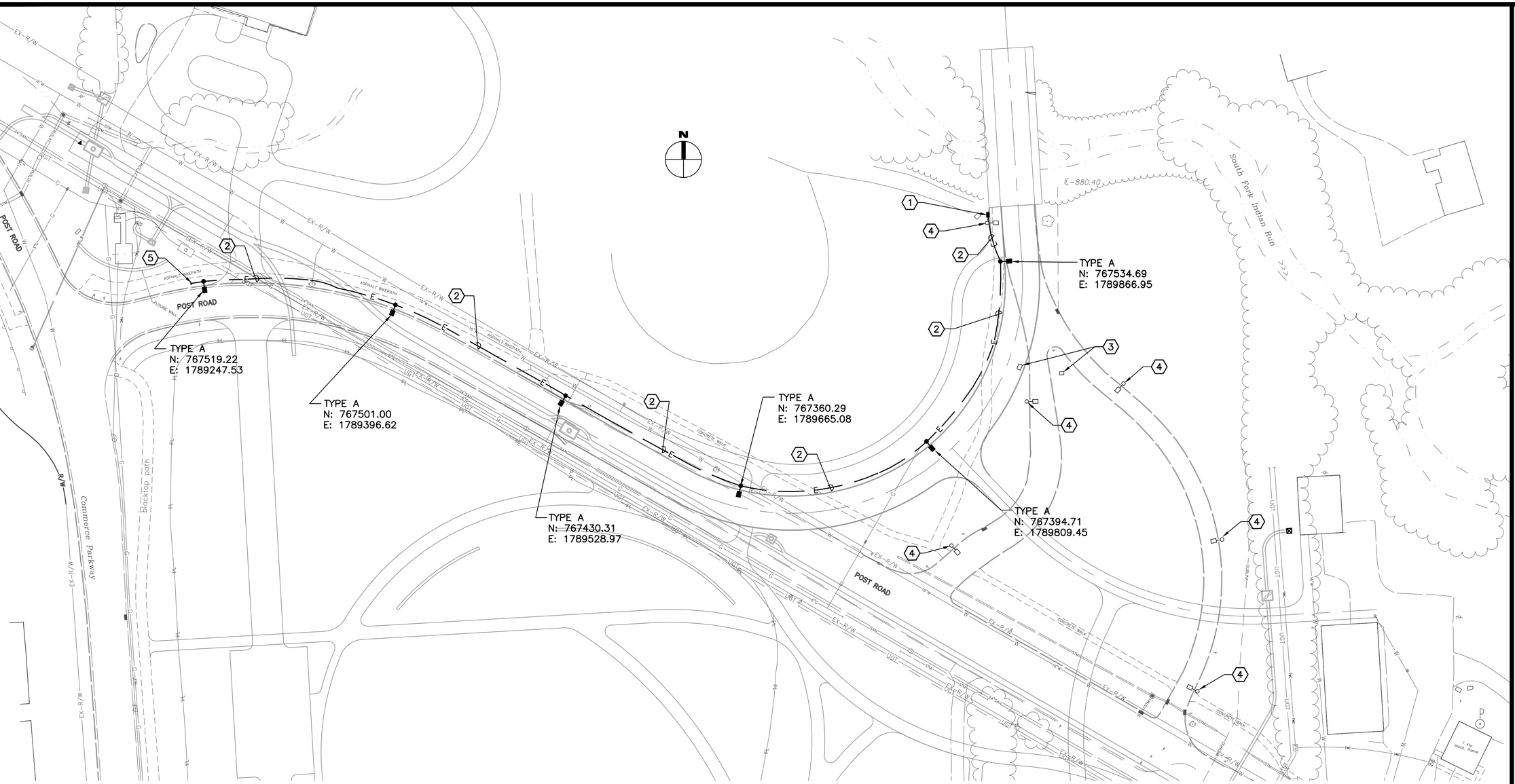


CODED NOTES ⬡ :

1. PULLBOX–SPLICE KITS. PULLBOX TO BE SET LEVEL WITH SIDEWALK, BIKE PATH OR CURB. EXACT LOCATION OF BOX TO BE DETERMINED BY LOCATION OF EXISTING CABLE. PULL EXISTING CABLES INTO NEW PULLBOX.
2. 2–#4, 1–#4 GRD. IN 2" C.
3. EXISTING GRADE MOUNTED PULLBOX TO BE REMOVED.
4. EXISTING LIGHT FIXTURE AND POLE TO BE REMOVED AND TURNED OVER TO THE CITY OF DUBLIN. REMOVE EXISTING CONCRETE BASE.
5. STUB OUT 2" CONDUIT 5'–0" BEYOND POLE AND CAP.

GENERAL NOTES:

1. ALL WORK SHALL BE IN ACCORDANCE WITH THE CITY OF DUBLIN STANDARD DRAWINGS EXCEPT AS MODIFIED HEREIN.
2. LOCATE POLE BASE CENTERLINE 3'–0" BEHIND BACK EDGE OF CURB.

FIXTURE A:

BETA #ARE–EDG–3M–DA–14–D–UH–BZ–525–40K WITH HAPCO #RTA25C7BF–BM, 25' POLE.

SYMBOLS

- ○–□ EXISTING STREET LIGHTING LUMINAIRE ON POLE
- ●–■ PROPOSED STREET LIGHT POLE WITH CONCRETE FOUNDATION AND LUMINAIRE. SEE CITY OF DUBLIN DETAIL SL–04. FIXTURE AND POLE AS NOTED.
- □ EXISTING PULLBOX
- ■ PROPOSED PULLBOX
- ——E—— PROPOSED UNDERGROUND ELECTRIC CIRCUIT. SEE CITY OF DUBLIN DETAIL SL–05 EXCEPT NO CONCRETE ENCASEMENT.

BURGESS & NIPLE
5085 REED ROAD
COLUMBUS, OHIO 43220

CITY OF DUBLIN, OHIO
COFFMAN PARK EXPANSION
POST ROAD UTILITY BURIAL
& ROADWAY LIGHTING

NO.	DESCRIPTION REVISIONS	DATE

JOB NO:	PR51132
DATE:	MAY 2013
DESIGNED BY:	TEB
DRAWN BY:	TEB
CHECKED BY:	RJC
APPROVED BY:	RJC
SCALE:	1" = 40'-0"

ELECTRICAL SITE PLAN

19

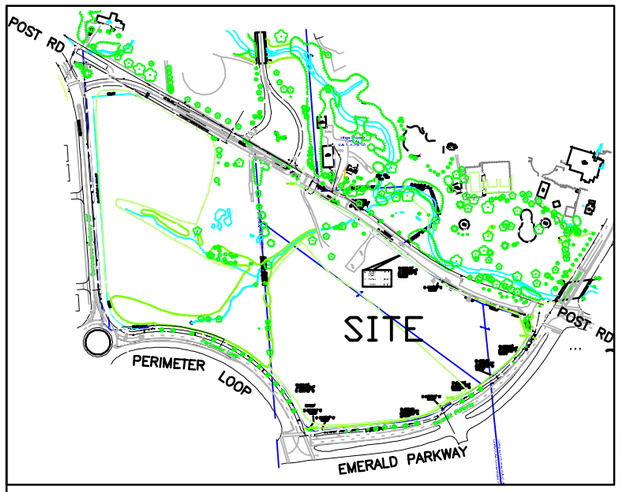
SHEET: 19 OF 19

P:\PR51132\cad\dwg\ELECTRICAL SITE.dwg 5/13/2013 9:55:44 AM Ward, Will

COFFMAN PARK EXPANSION PHASE I

8' PAVED TRAIL AND CHANNEL STABILIZATION

EMERALD PARKWAY, DUBLIN, OHIO 43017



LOCATION MAP 1" = 300'

GENERAL QUANTITIES

ITEM	QUAN.	UNIT	DESCRIPTION
T54 STRUCTURE QUANTITIES			
207	300	LF	TEMP 8" STRAW WATTLES BELOW DISTURBED AREAS
201	1	LS	CLEARING TREES AND BRUSH FOR STRUCTURES
651	100	CY	STRIP 4" TOPSOIL AND STOCKPILE AS DIRECTED
203	240	CY	CUT, FILL, GRADE AND COMPACT FOR STRUCTURE
602	120	CY	POUR BEBO BLOCK CONCRETE
602	24	CY	PLACE REBAR AND POUR BEBO STRUCTURE FOUNDATION
602	21	CY	PLACE REBAR AND POUR ENDWALL FOUNDATION
602	672	SF	PLACE REBAR AND POUR 12" WALL
602	644	SF	PLACE REBAR AND POUR 8" WALL
712	640	SF	10' WIDE NON WOVEN FILTER FABRIC TO BE APPROVED
203	40	TN	#57 STONE DRAINAGE LAYER
603	200	LF	4" SUBDRAIN PIPE
203	700	CY	BACKFILL AND COMPACT SOIL OVER STRUCTURE
652/203	100	CY	RESPREAD TOPSOIL AND FINE GRADE DISTURBED AREAS
659	35,000	SF	FESCUE SEED DISTURBED TRAIL EDGES AND MOUNDS
651	200	SF	ROCK STEPPED WALLS
651	960	SF	GRASSSTONE PAVERS
651	60	LF	ROCK V-WEIR STRUCTURE
651	160	LF	ROCK BANK STABILIZATION
203	40	TN	#2 AND #57 STONE MIXED WITH EX CHANNEL SOILS
203	20	CY	BACKFILLING ROCK STRUCTURES DURING INSTALLATION
659	1000	SF	NATIVE SEEDING DISTRUBED AREAS AROUND STRUCTURES
-	1	LS	COORDINATIOON WITH THE CITY OF COLUMBUS WATER DEPT.
-	95	LF	REMOVE 16" WATER LINE
-	1	LS	REMOVE FIRE HYDRANT AND VALVE
-	120	LF	INSTALL 16" WATER LINE
-	4	EA	45 DEG FITTING
-	1	EA	6X16 TAP
-	1	EA	6" VALVE
-	1	EA	FIRE HYDRANT
-	6	EA	CONCRETE THRUST BLOCKS
-	1	LS	DISINFECTION AND TESTING
T22 STRUCTURE QUANTITIES			
207	100	LF	TEMP 8" STRAW WATTLES BELOW DISTURBED AREAS
201	1	LS	CLEARING TREES AND BRUSH FOR STRUCTURES
651	50	CY	STRIP 4" TOPSOIL AND STOCKPILE AS DIRECTED
203	60	CY	CUT, FILL, GRADE AND COMPACT FOR STRUCTURE
602	46	CY	POUR BEBO BLOCK CONCRETE
602	8	CY	PLACE REBAR AND POUR BEBO STRUCTURE FOUNDATION
602	5	CY	PLACE REBAR AND POUR ENDWALL FOUNDATION
602	200	SF	PLACE REBAR AND POUR 12" WALL
602	300	SF	PLACE REBAR AND POUR 8" WALL
712	620	SF	10' WIDE NON WOVEN FILTER FABRIC TO BE APPROVED
203	22	TN	#57 STONE DRAINAGE LAYER
603	100	LF	4" SUBDRAIN PIPE
203	100	CY	BACKFILL AND COMPACT SOIL OVER STRUCTURE
652/203	50	CY	RESPREAD TOPSOIL AND FINE GRADE DISTURBED AREAS
659	5000	SF	FESCUE SEED DISTURBED AREAS
REMOVABLE BRIDGE QUANTITIES			
-	1	EA	REMOVABLE 11'X18' WOOD BRIDGE
602	3	CY	PLACE REBAR AND POUR ENDWALL FOUNDATIONS

GENERAL NOTES

1. City of Columbus and Ohio Department of Transportation Construction and Material Specifications. current editions, and any supplements thereto (hereafter referred to as Standard Specifications), shall govern all construction items unless otherwise noted. If a conflict between specifications is found, the more strict specification will apply as decided by the Parks and Open Space Director. Item Numbers listed refer to City of Columbus Item Numbers unless otherwise noted.
2. The Parks and Open Space Director will not be responsible for means, methods, procedures, techniques, or sequences of construction that are not specified herein. The Parks and Open Space Director will not be responsible for safety on the work site, or for failure by the Contractor to perform work according to contract documents.
3. The Contractor shall be responsible to obtain all necessary permits including but not limited to Ohio EPA Permits to install (PTI) and Notices of Intent (NOI), Building Permits, etc.
4. The Contractor shall notify the City of Dublin Division of Parks and Open Space in writing at least 3 working days prior to beginning construction.
Division of Parks and Open Space
City of Dublin
6555 Shier Rings Road
Dublin. Ohio 43016
5. The Contractor shall be solely responsible for complying with all federal, state and local safety requirements including the Occupational Safety and Health Act of 1970. The Contractor shall exercise precaution always for the protection of persons (including employees) and property. It shall also be the sole responsibility of the Contractor to initiate, maintain and supervise all safety requirements, precautions and programs in connection with the work, including the requirements for confined spaces per 29 CFR 1910.146.
6. Following completion of construction of the site improvements and before requesting occupancy, a proof survey shall be provided by the Contractor to the Division of Parks and Open Space that documents "as-built" elevations, dimensions, slopes and alignment of all elements of this project. The proof survey shall be prepared, signed and submitted by a Registered Professional Surveyor and checked by the Professional Engineer who sealed the construction drawings.
7. Deleted
8. The Contractor shall carefully preserve bench marks, property corners, reference points, stakes and other survey reference monuments or markers. In cases of willful or careless destruction, the Contractor shall be responsible for restorations. Resetting of markers shall be performed by an Ohio Professional Surveyor as approved by the Parks and Open Space Director.
9. Non-rubber tired vehicles shall not be moved on or across public streets or highways without the written permission of the Parks and Open Space Director.
10. The Contractor shall restore all disturbed areas to equal or better condition than existed before construction. Drainage ditches or water courses that are disturbed by construction shall be restored to the grades and cross-sections that existed before construction.
11. Tracking or spilling mud, dirt or debris upon streets, residential or commercial drives, sidewalks or bike paths is prohibited according to Section 97.38 of Dublin Code of Ordinances. Any such occurrence shall be cleaned up immediately by the Contractor at no cost to the City. If the Contractor fails to remove said mud, dirt, debris, or spillage, the City reserves the right to remove these materials and clean affected areas. The cost of which shall be the responsibility of the Contractor.
12. Disposal of excess excavation within Special Flood Hazard Areas (100-year floodplain) may not be permitted without express written consent of the City Engineer. In any case, no disposal will be permitted within twenty feet of floodway boundaries.
13. All signs, landscaping, structures or other appurtenances within right-of-way disturbed or damaged during construction shall be replaced or repaired to the satisfaction of the City Engineer. The cost of this work shall be the responsibility of the Contractor.
14. All field tile broken or encountered during excavation shall be noted on the "as-built" survey, replaced or repaired, and connected to the public storm sewer system as directed by the Parks and Open Space Director. The cost of this work shall be the responsibility of the Contractor .
15. All precast concrete products shall be inspected at the location of manufacture. Approved precast concrete products will be stamped or have such identification noting that inspection has been conducted by the City of Columbus. Precast concrete products without proof of inspection shall not be approved for installation.
16. Backfill within a 1:1 influence line of existing structures (houses, garages. etc.) or public infrastructure (pavement, curbs, sidewalks, bikepaths, etc.) shall be granular backfill according to Item 912 of the Standard Specifications or Flowable CDF, Type III according to Item 636. Item 911 of the Standard Specifications may be used elsewhere.
17. Deleted
18. All trenches within public right-of-way shall be backfilled according to the approved construction drawings or securely plated during nonworking hours. Trenches outside these areas shall be backfilled or shall be protected by approved temporary fencing or barricades during nonworking hours. Clean up shall follow closely behind the trenching operation.
19. All trees within the construction area not specifically designated for removal shall be preserved, whether shown or not shown on the approved construction drawings. Trees to be preserved shall be protected with high visibility fencing placed a minimum 15 feet from the tree trunk. Trees 6-inches or greater at DBH (Diameter Breast Height) must be protected with fencing placed at the critical root zone or 15 feet, whichever is greater. Trees not indicated on the approved construction drawings for removal may not be removed without prior approval of the Division of Parks and Open Space.
20 Conduit must be directionally bored across streets instead of open cut, unless specifically approved by the Parks and Open Space Director. Use of pneumatic air ram devices is not permitted. Permits to construct in the right-of-way of existing streets must be obtained from the City of Dublin Division of Engineering before commencing construction. Should open-cutting of existing pavement be permitted, Controlled Density Backfill (Type III) shall be used in place of compacted granular backfill, according to Item 636 of the Standard Specifications.
21. The Contractor shall be responsible for the condition of trenches within the right-of-way and public easements for a period of one year from the final acceptance of the work, and shall make any necessary repairs at no cost to the City.
22. Pavements shall be cut in neat, straight lines the full depth of the existing pavement, or as required by the Parks and Open Space Director. Pavement replacement shall be conducted according to City of Columbus Standard Drawing 1441 Dr. A and applicable City of Dublin standard drawings. The replacement of driveways, handicapped ramps, sidewalks. bike paths, parking lot pavement, etc. shall be provided according to the approved construction drawings and City of Dublin standard construction drawings.
23. Tree trimming within the construction zone is to be completed by a certified Arborist. At the completion of the project, the Arborist is to return and trim any broken branches as needed.
24. Any modification to the work shown on drawings must have prior written approval by the Parks and Open Space Director, City of Dublin.
25. Deleted
26. All disturbed areas within the Limit of Work shall be fine-graded in preparation of seeding and seeded with the following mixture:
Premier Blend (stock blend) – 80/20 Bluegrass/Rye, all variteties must be in the top 10 NTEP evaluations. Germination Rate 90%
Application Rate: 7 lbs per 1000 sq ft as directed by City of Dublin Parks and Open Space
The contractor shall confirm the above seed mix with the City of Dublin, Grounds and Facilities. Any disturbed areas outside the Limit of Work shall be fine graded and seeded by the Contractor with the above seed mix.
27 Deleted
28 Deleted

BENCHMARK DATA – Horizontal NAD 83, Vertical NAVD 88
BM#1 – ELEVATION

SHEET INDEX

SHEET	TITLE
C-1	COVER SHEET AND NOTES
C-2	GENERAL NOTES CONT.
C-3	T54 STRUCTURE PLANS
C-4	T54 STRUCTURE DETAILS
C-5	T22 STRUCTURE PLANS
C-6	T22 STRUCTURE DETAILS
C-7	TEMP BRIDGE PLAN/DETAILS
C-8	ROCK STABILIZATION DETAILS

STANDARD CONSTRUCTION DRAWINGS CITY OF DUBLIN
BIKE PATH (STANDARD) - RD-06
CITY OF COLUMBUS
WATER LINE, VALVES, AND HYDRANT DETAILS

Scott E Sonnenberg, PE #63086

CITY OF DUBLIN
DIVISION OF
PARKS AND OPEN SPACE
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DUBLIN, OHIO 43016
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ECO-DESIGN & ENGINEERING
7700 Wells Road, Plain City, Ohio 43064
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COFFMAN PARK
EXPANSION
5200 EMERALD PARKWAY
DUBLIN, OHIO 43017

DATE	SCALE
5/16/13	
DRAWN BY	SHEET NO.
SES	C1

COVER SHEET

GENERAL NOTES CONT.

UTILITIES

1. The following Utilities are known to be located within the limits of this project:
   Columbus and Southern Electric Power
   Columbia Gas
2. The Contractor shall give Notice of Intent to construct to Ohio Utilities Protection Service (telephone number 800-362-2764), Producer's Underground Protection Service (telephone number 614-587-0486), and to owners of underground utilities that are not members of a registered underground protection service. Notice shall be given of at least 2 working days before start of construction.
3. The Identity and locations of existing underground utilities in the construction area have been shown on the approved construction drawings as accurately as provided by the owner of the underground utility. The City of Dublin and the Parks and Open Space Director assumes no responsibility for the accuracy or depths of underground facilities shown on the approved construction drawings. If damage is caused, the Contractor shall be responsible for repair of the same and for any resulting contingent damage.
4. Location, support, protection and restoration of all existing utilities and appurtenances, whether shown or not shown on the approved construction drawings, shall be the responsibility of the Contractor.
5. When unknown or incorrectly located underground utilities are encountered during construction, the Contractor shall immediately notify the Parks and Open Space Director.
6. Deleted

EROSION AND SEDIMENT CONTROL

1. The Contractor or Developer is responsible for submitting a Notice of Intent (NOI) to be reviewed and approved by the Ohio EPA. The NOI must be submitted to OEPA 21 days prior to the start of construction and may entitle coverage under the Ohio EPA General Permit for Stormwater Discharges associated with construction activity. A project location map must be submitted with the NOI. A sediment and erosion control plan must be submitted to the Director of Grounds and Facilities for approval if a sediment and erosion control plan has not already been included with the approved construction drawings. This plan must be made available at the project site at all times. The design of erosion control systems shall follow the requirements of Ohio EPA, Item 207 of Ohio Department of Transportation Standard Specifications, and the Director of Grounds and Facilities. An individual NPDES Stormwater Discharge Permit may be required. The Contractor shall be considered the permitte.
2. The Contractor shall provide sediment control at all points where storm water runoff leaves the project, including waterways, overland sheet flow, and storm sewers.
3. Accepted methods of providing erosion/sediment control include but are not limited to: sediment basins, silt filter fence, aggregate check dams, and temporary ground cover. Hay or straw bales are not permitted.
4. The Contractor shall provide adequate drainage of the work area at all times consistent with erosion control practices.
5. Disturbed areas that will remain unworked for 30 days or more shall be seeded or protected within seven calendar days of the disturbance. Other sediment controls that are installed shall be maintained until vegetative growth has been established. The Contractor shall be responsible for the removal of all temporary sediment devices at the conclusion of construction but not before growth of permanent ground cover.

SANITARY SEWERS – **Deleted.**

WATER LINE – 1. All water line materials shall be provided and installed according to current specifications of the City of Columbus Division of Water.
2. All public water pipe with a diameter 3 inches to 8 inches shall be Ductile Iron, Class 53. Public water pipe 12 inches in diameter or larger shall be Ductile Iron, Class 54. Public water pipe 20 inches in diameter or larger may be prestressed concrete pipe. Private water pipe shall meet the approval of the City of Columbus Division of Water prior to approval of the construction drawings.
3. Only fire hydrants conforming to City of Columbus standards will be approved for use.
4. Public water lines shall be disinfected by the City of Columbus Division of Water. Requests for water line chlorination shall be made through the City of Dublin Division of Engineering. The cost for chlorination shall be paid for by the Contractor.
5. All water lines shall be disinfected according to Item 801.13 of the Standard specifications. Special attention is directed to applicable sections of American Water Works Association specification C_651, particularly for flushing (Section 5) and for chlorinating valves and fire hydrants (Section 7). Pressure testing shall be performed in accordance with Section 801.12 of the City of Columbus Construction and Material Specifications. When water lines are ready for disinfection, the City of Dublin shall submit two (2) sets of "as-built" plans, and a letter stating that the water lines have been pressure tested and need to be disinfected, to the City of Columbus, Division of Water. The Contractor shall be responsible for all costs associated with the disinfection of all water lines construction per this plan. Pressure testing shall be performed in accordance with Section 801.12 of the City of Columbus Construction and Material Specifications.
6. The Contractor shall paint all fire hydrants according to City of Dublin standards. The cost of painting fire hydrants shall be included in the contract unit price for fire hydrants.
7. No water taps or service connections (e.g., to curb stops or meter pits) may be issued until adjacent public water lines serving the construction site have been disinfected by the City of Columbus Division of Water and have been accepted by the City Engineer. A tap permit for each water service must be obtained from the City of Dublin and the City of Columbus Division of Water before making any taps into public water lines.
8. The Contractor shall notify the City of Columbus Division of Water at 645_7788 and the City of Dublin Division of Engineering at least 24 hours before tapping into existing water lines.
9. All water main stationing shall be based on street centerline stationing.
10. All bends, joint deflections and fittings shall be backed with concrete per City of Columbus standards.
11. The Contractor shall give written notice to all affected property owners at least 1 working day but not more than 3 working days prior to any temporary interruption of water service. Interruption of water service shall be minimized and must be approved by the City Engineer.
12. Water meters shall be installed inside proposed structures unless a meter pit installation is approved by the City of Columbus Division of Water. Meter pits must conform to standard drawings L-7103, A&B for 5/8" through 1" meters or L-6317, A, B, C&D for 1-1/2" or larger meters.
13. Water lines to be installed in embankment areas shall be placed after the embankment has been placed and compacted according to the Standard Specifications.
14. Curb stop boxes shall be located at least 1 foot inside the right_of_way and set at finished grade.
15. If the top of the operating nut of any valve is greater than 36 inches below finished grade, an extension stem shall be furnished to bring the top of the operating nut to within 24 inches of finished grade elevation.
16. All water lines shall be placed at a minimum depth of 4 feet measured from top of finished grade to top of water line. Water lines shall be set deeper at all points where necessary to clear existing or proposed utility lines or other underground restrictions by a minimum of 18 inches.
17. Two ¾ inch taps shall be installed within 2 feet of the end of the line on all dead-end water lines.

STORM SEWER

1. All storm water detention and retention areas and major flood routing swales shall be constructed to finish grade and hydro-seeded and hydro-mulched according to Items 203 and 659 of the Standard Specifications.
2. Where private storm sewers connect to public storm sewers, the last run of private storm sewer connecting to the public storm sewer shall be Reinforced Concrete Pipe conforming to ASTM Designation C76, Wall B, Class IV for pipe diameters 12 inches to 15 inches, Class III for 18 inches to 24 inch pipes, and 27 inches and larger pipe shall be Class II, unless otherwise shown on the approved construction drawings. Inspection is required by the City of Dublin's Division of Engineering.
3. Granular backfill shall be compacted granular material according to Item 912 of the Standard Specifications or Controlled Density Backfill according to Item 636, Type III of the Standard Specifications as directed by the City Engineer.
4. All storm sewers shall be Reinforced Concrete Pipe conforming to ASTM Designation C76, Wall B, Class IV for pipe diameters 12 inches to 15 inches, Class III for 18 inches to 24 inch pipes, and 27 inches and larger pipe shall be Class II, unless otherwise shown on the approved construction drawings.
5. Headwalls and endwalls shall be required at all storm sewer inlets or outlets to and from stormwater management facilities. Natural stone and/or brick approved by the City Engineer shall be provided on all visible headwalls and/or endwalls surfaces.
6. Storm inlets or catch basins shall be channelized and have bicycle safe grates. Manhole lids shall include City of Dublin logo and all curb inlet and catch basin grates shall induce engraved lettering: "DUMP NO WASTE; DRAINS TO RIVER."
7. Storm sewer outlets greater than 18 inches in diameter accessible from stormwater management facilities or watercourses shall be provided with safety grates, as approved by the City Engineer.

TRAFFIC CONTROL – Deleted

BLASTING – Deleted

MAIL DELIVERY – Deleted

USE OF FIRE HYDRANTS – Deleted

GENERAL SWPPP NOTES

1. Nature of Construction - the existing site consists of a an existing lawn, partly forested, and partly developed site with the South Fork of Indian Run running through the site and a CN of 75-80. Work to be included under this plan consists of stripping of topsoil and stockpiling, excavation and grading for foundations and culvert structures, relocated water line, existing asphalt road removal, utility relocation, grading for new park paths, spreading topsoil, installation of storm drainage pipe, pollution prevention measures, and stabilization of all disturbed areas during and after the construction. Total disturbed area 5.0 acres and a developed CN of 75-80. The site drains into the South Fork of Indian Run and then into the Scioto River. The soils consist of Kokomo and Lewisburg-Crosby soils, type C and D with a .32 TO .43 erosion k factor.
2. The contractor shall be responsible for protection of all utilities and damages as a result of his work. The contractor shall notify the Ohio Utilities Protection Services at least 2 working days prior to any digging (800) 362-2764.
3. The contractor shall be responsible for obtaining all local permits and associated permit fees required for the construction. The Contractor will need to file the Notice of Intent NOI as required for the NPDES general permit for construction activities and is responsible for following the permit, submittal of a CoPermittee Notice of Intent for all required subcontractors, inspections and recording of inspection reports every 7 days and within 24 hours after any rainfall event greater than 1/2 inch. All inspection records shall be kept for 3 years after submittal of the Notice of Termination NOT within 45 days of final stabilization.
4. The contractor shall be responsible for all safety precautions related to the construction.
5. Any stockpile areas shall be compacted to 85% Standard Proctor to minimize erosion potential and stabilize the surface unless respread within 7 days.
6. The contractor shall be responsible for coordination of soil or material testing required to meet the specifications. The Owner and Engineer shall decide if testing is required and will contract with an independent testing firm.
7. Temporary silt fences and other sediment control structures shall be installed prior to any stripping of topsoil or other land disturbing activities as noted on the plan or as required by the engineer during the construction.
8. All disturbed areas must be stabilized within 7 days after construction activities have ceased in that area unless construction will resume within 21 days after stopping.
9. All sediment control measures shall be checked every 7 days and after each rainstorm and repaired as necessary. Any modifications to the Stormwater Pollution Prevention Plan SWPPP shall be noted in the inspection reports and approved by the civil engineer. Silt build-up shall be removed and properly disposed of when it reaches a depth of 1 foot or 1/2 the height of the sediment control device, whichever is less. Measures shall be evaluated for effectiveness and whether additional measures are needed to control sediment runoff.
10. Sediment shall be removed by the grading contractor from silt basins and fences prior to the removal of erosion control devices and spread over areas of the site out of the path of flowing water. The grading contractor shall be responsible for the removal of silt fences, sediment control structures, any accumulated debris, and for any clean-up required.
11. Any field tile encountered or cut during the construction shall be repaired and noted on the as-built plans.
12. Stockpiled topsoil onsite shall be spread over slopes and along pavement edges to a min depth of 4". Areas to receive topsoil shall be scarified immediately prior to placing of topsoil.
13. Final seeding of disturbed areas shall follow the specifications immediately after spreading of topsoil.
14. The Contractor shall limit construction traffic to minimize disturbance and compaction of the site. All areas impacted by construction or construction traffic shall be scarified or disc'd to break up soil prior to final grassing.
15. The Contractor shall clean excessive soil from the gravel construction entrances and spread new stone as needed to limit excess soil from leaving the site.
16. The Contractor shall protect Temp Bench Marks, layout and grade stakes, and any other materials used for establishing construction layout and elevations.
17. The owner is the City of Dublin, and will be responsible for maintenance of permanent facilities.

CONSTRUCTION SCHEDULE

1. Approximate construction date July, 2013.
2. Install straw wattles.
3. Clearing for foundations and graded areas, chip and spread all trees and shrubs under 4" diameter.
4. Strip and stockpile 6" topsoil from foundations and graded areas.
5. Rough grading, excavate foundations, compaction of subgrade, asphalt removal, and grading for mounds and trails.
6. All subgrades shall be inspected and approved by civil engineer prior to placement of concrete.
7. Install foundations, structures, walls, relocate utilities, subdrains, backfill walls, and respread topsoil.
8. Install stone facing, stone weirs and bank stabilization, grassstone pavers, finish grading of future trails, seed and install erosion mat along channel
9. Respread topsoil around pavement edges and seed disturbed areas or mulch as directed
10. Install native seeding around rock bank stabilization
11. Final cleanup and grassing of remaining disturbed areas.
12. Complete construction October, 2013
13. Remove remaining temporary erosion controls after permanent vegetation is established and final grassing.

TEMPORARY SEEDING

During construction, the contractor shall be required to control erosion on all disturbed slopes before the establishment of permanent vegetation. Temporary seeding shall consist of Annual Ryegrass at 150 lbs. per acre with hydro mulch employed as necessary.
The contractor shall be required to do maintenance necessary to keep temporary seeded areas in a satisfactory condition until permanent grassing and landscaping is in place. This includes repairing washes and additional temporary seeding where a satisfactory stand of grass has not been achieved.

CITY OF DUBLIN
DIVISION OF
PARKS AND OPEN SPACE
6555 SHIER-RINGS ROAD
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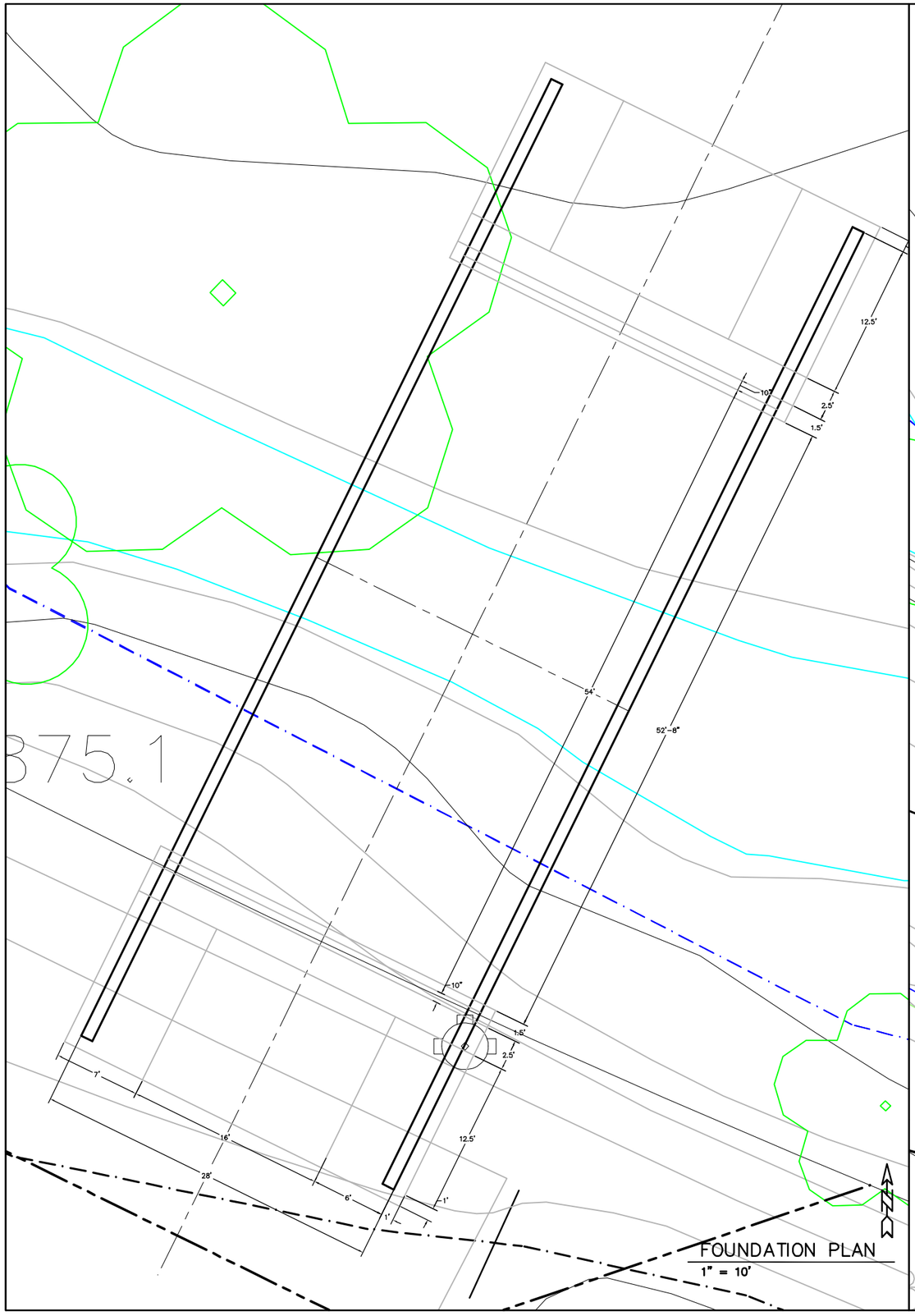
7700 Wells Road, Plain City, Ohio 43064
Phone / FAX (614) 733-0049

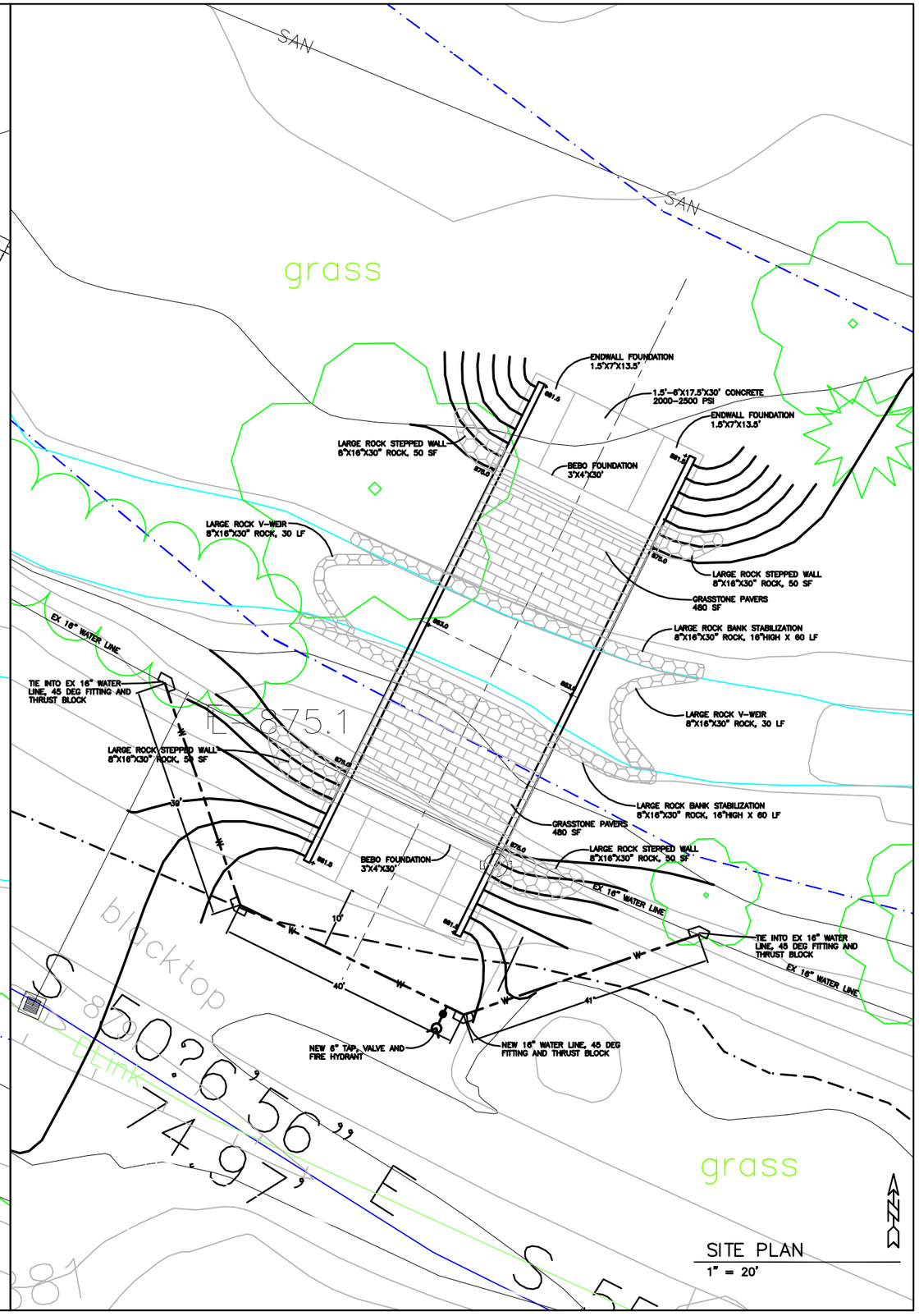
COFFMAN PARK
EXPANSION
5200 EMERALD PARKWAY
DUBLIN, OHIO 43017

DATE	SCALE
5/16/13	
DRAWN BY	SHEET NO
SES	C2

GENERAL NOTES



FOUNDATION PLAN
1" = 10'



SITE PLAN
1" = 20'

CITY OF DUBLIN
DIVISION OF
PARKS AND OPEN SPACE
6555 SHIER-RINGS ROAD
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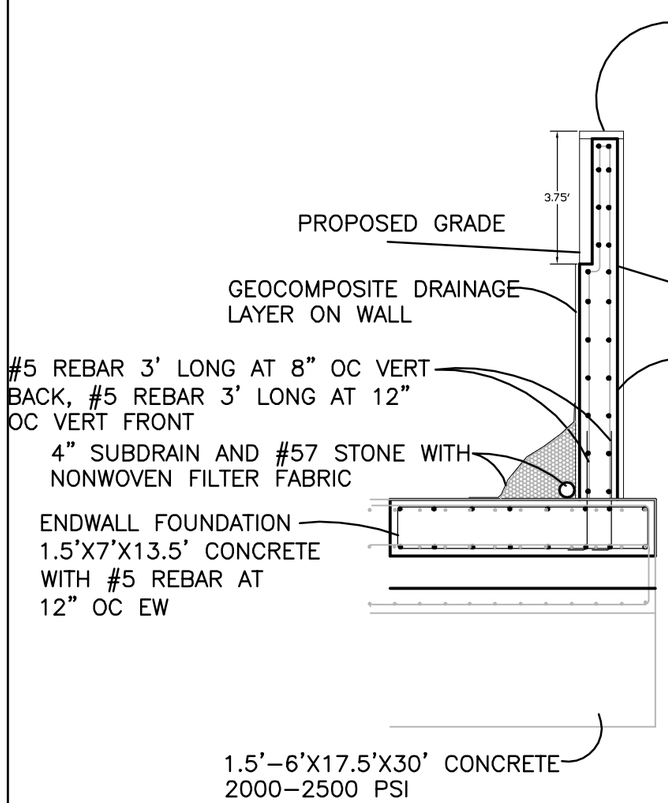
7700 Wells Road, Plain City, Ohio 43064
Phone / FAX (614) 733-0049

COFFMAN PARK EXPANSION

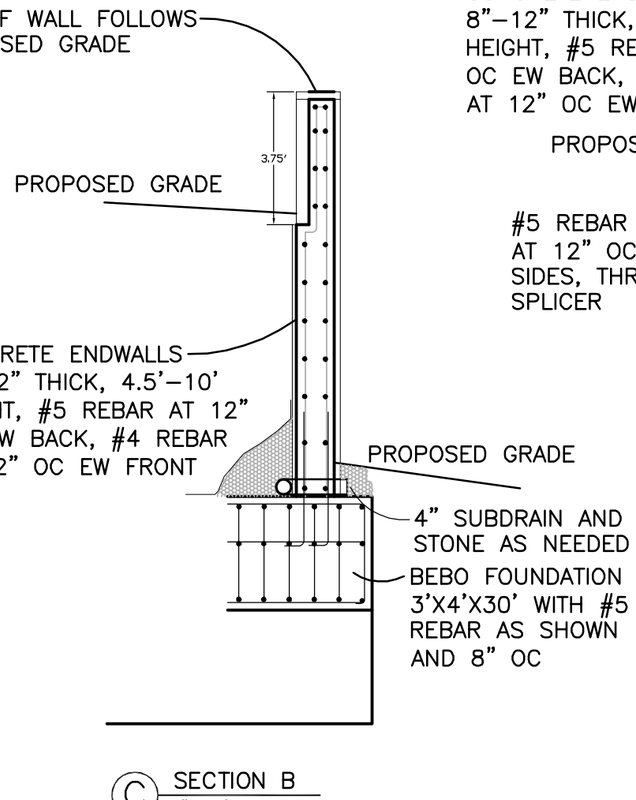
5200 EMERALD PARKWAY
DUBLIN, OHIO 43017

DATE	SCALE
5/16/13	
DRAWN BY	SHEET NO
SES	C3

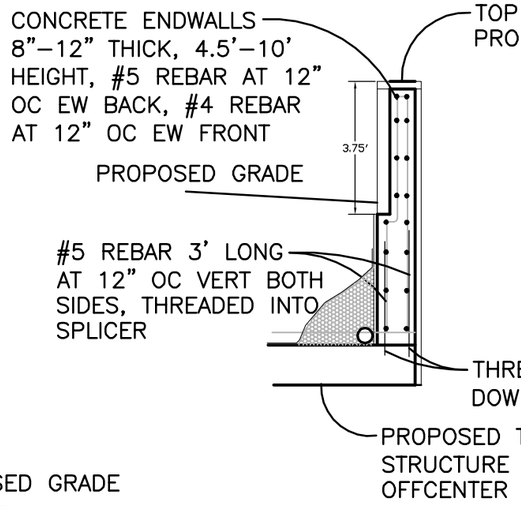
T54 STRUCTURE PLANS



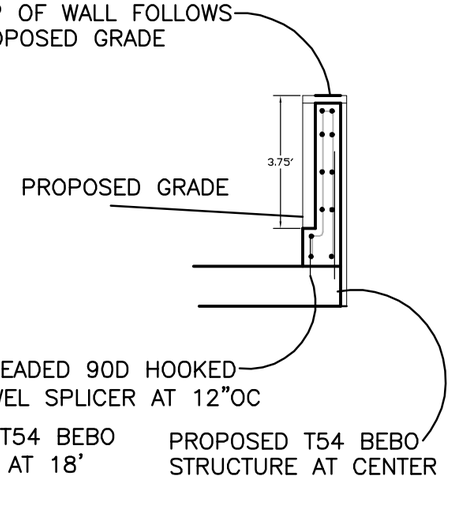
B SECTION A
1" = 4'



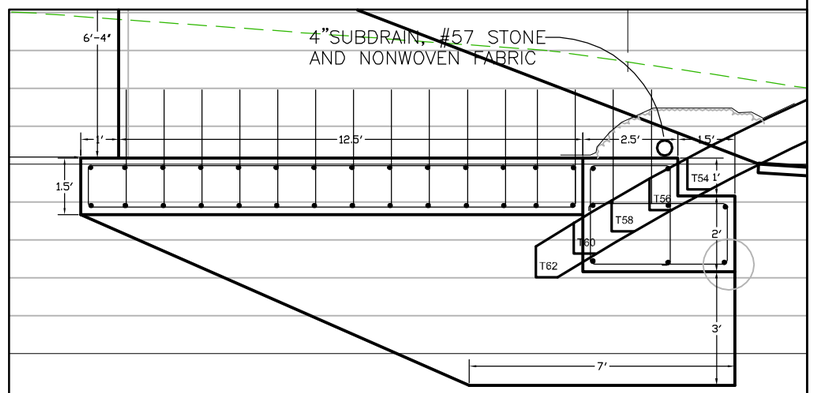
C SECTION B
1" = 4'



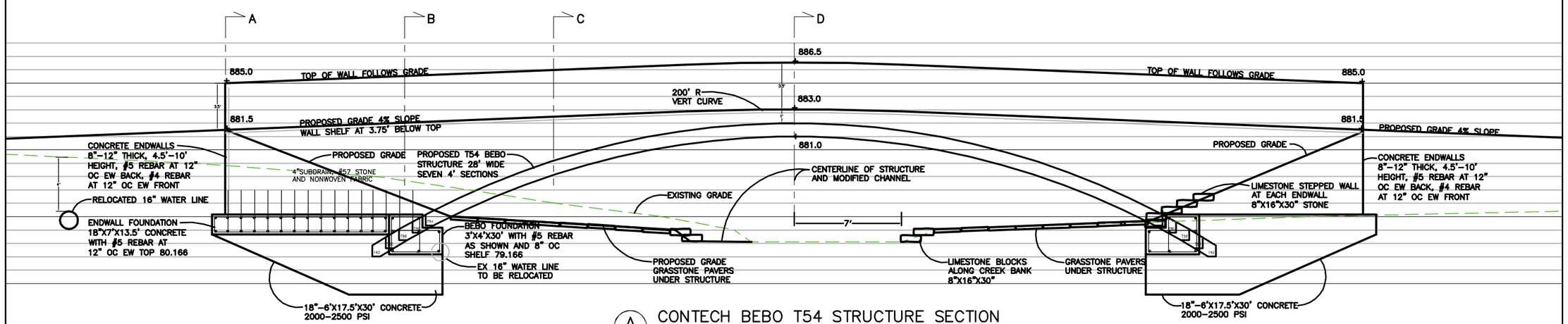
D SECTION C
1" = 4'



E SECTION D
1" = 4'



F ENDWALL/T54 FOUNDATIONS
1" = 4'



A CONTECH BEBO T54 STRUCTURE SECTION
1" = 8'

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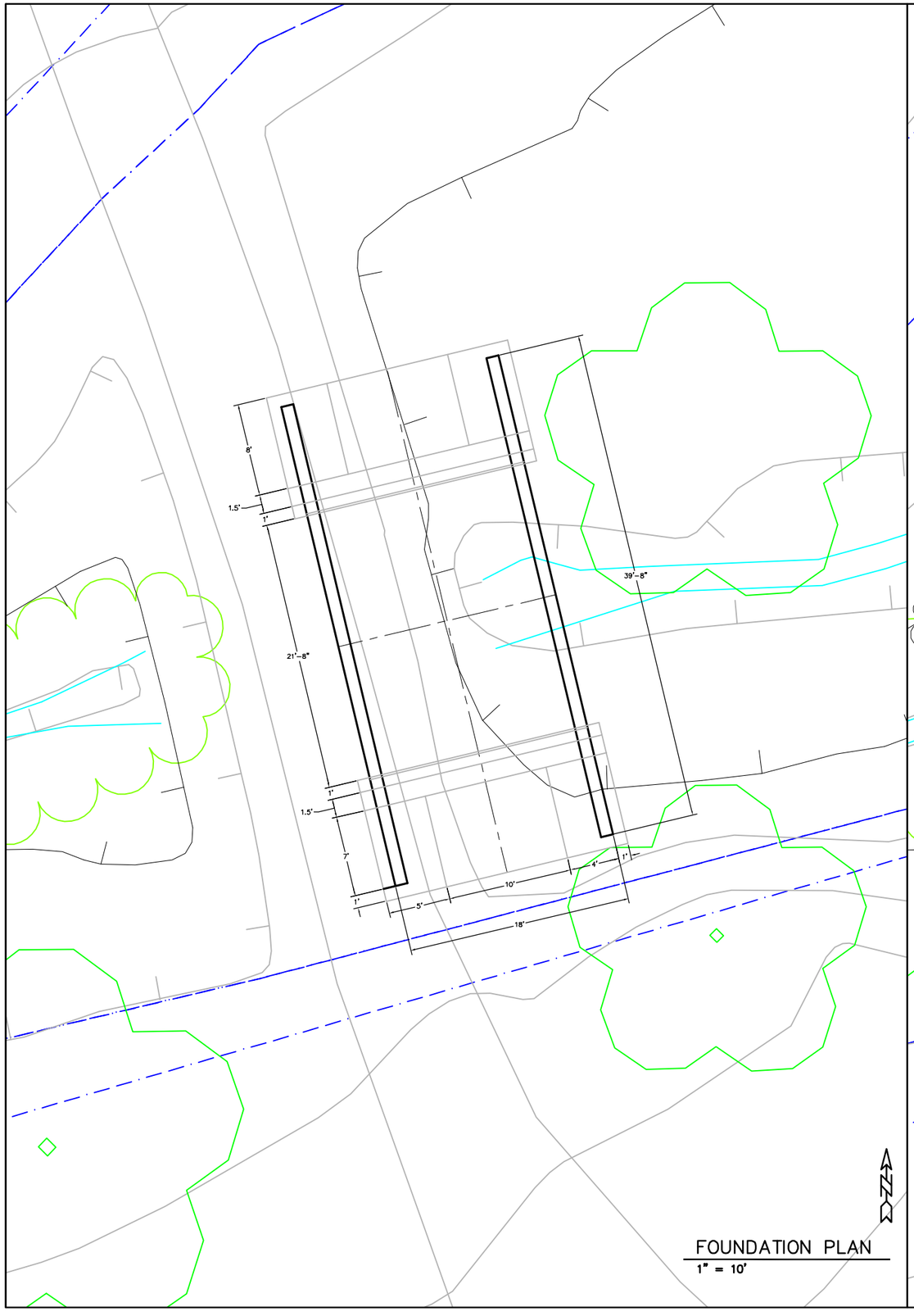
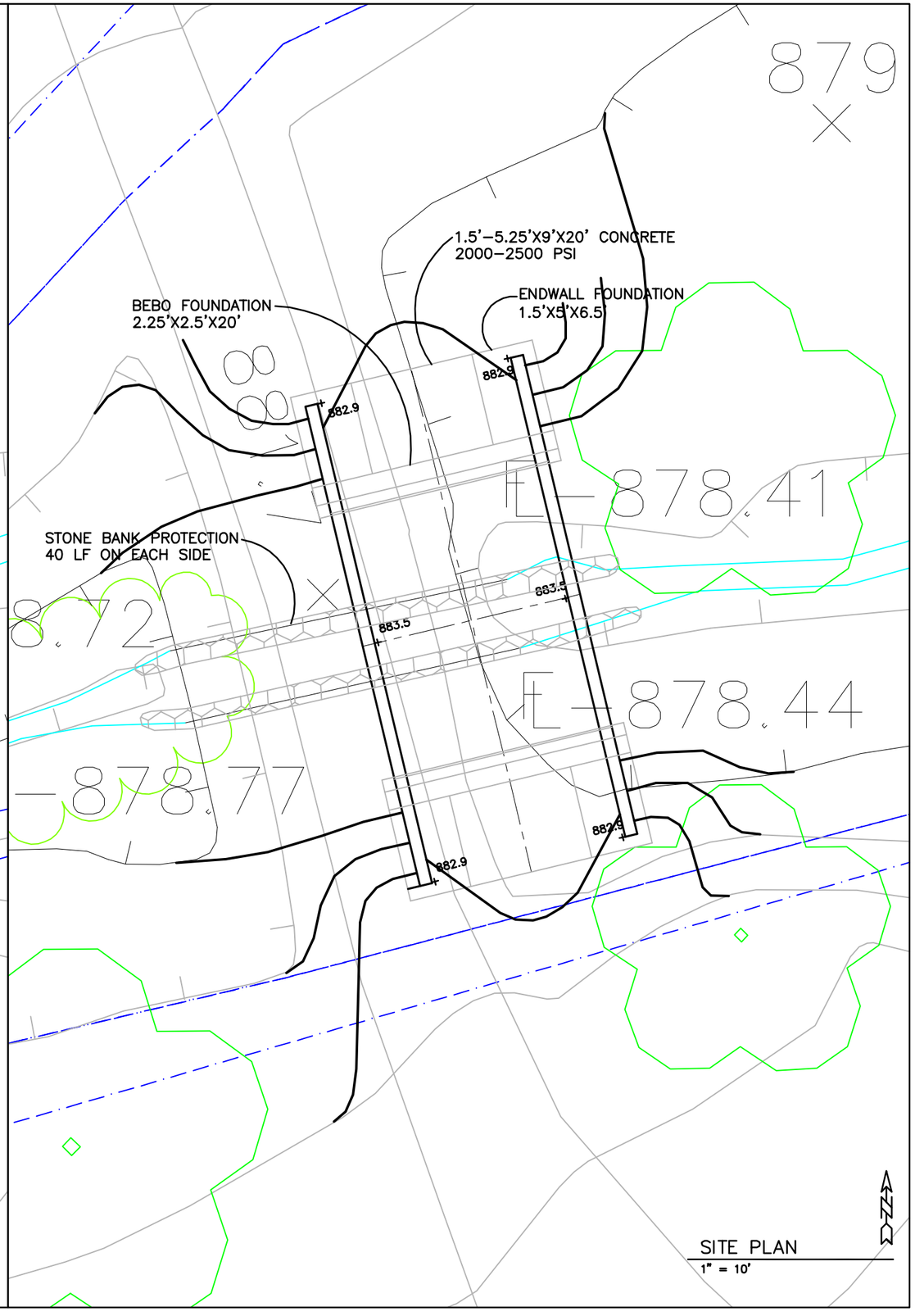
5/16/13	
DRAWN BY	SHEET NO
SES	C4

T54 STRUCTURE DETAILS



FOUNDATION PLAN
1" = 10'



SITE PLAN
1" = 10'

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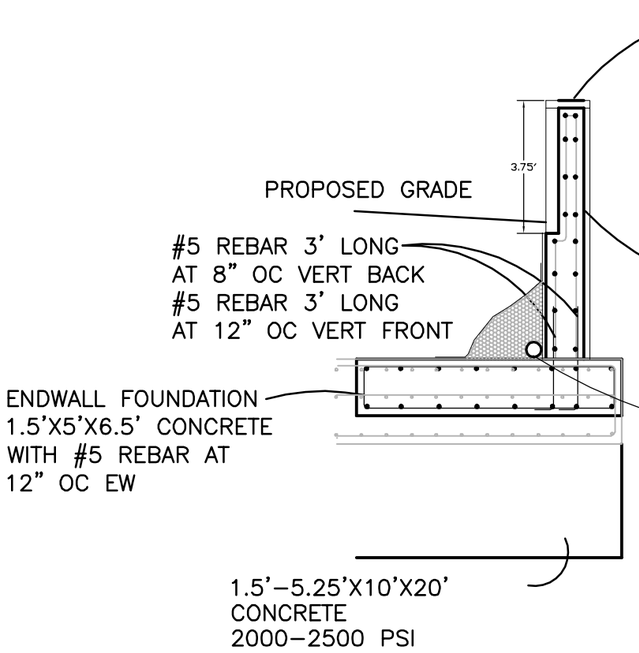
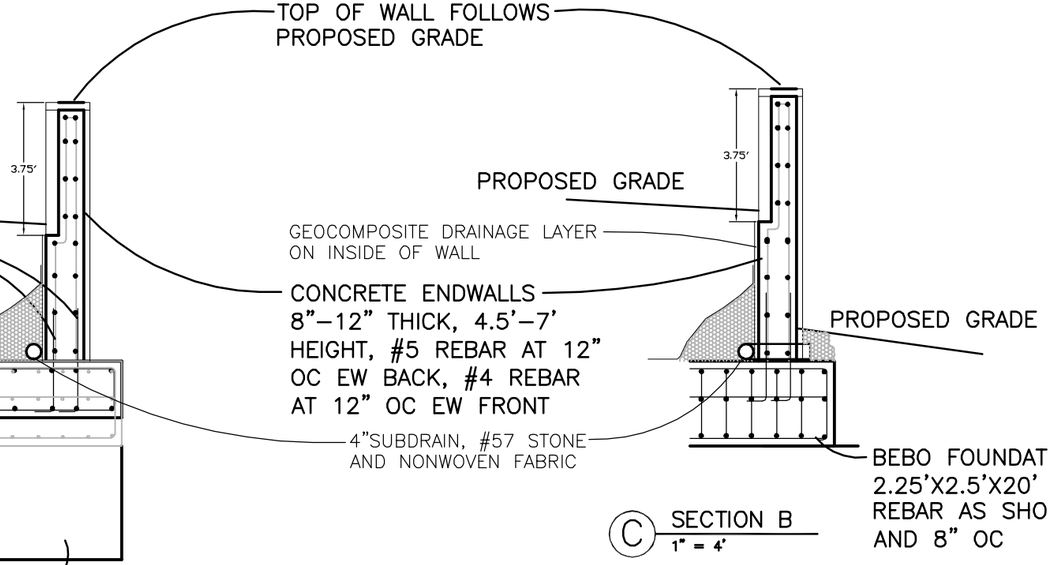
SES	C5

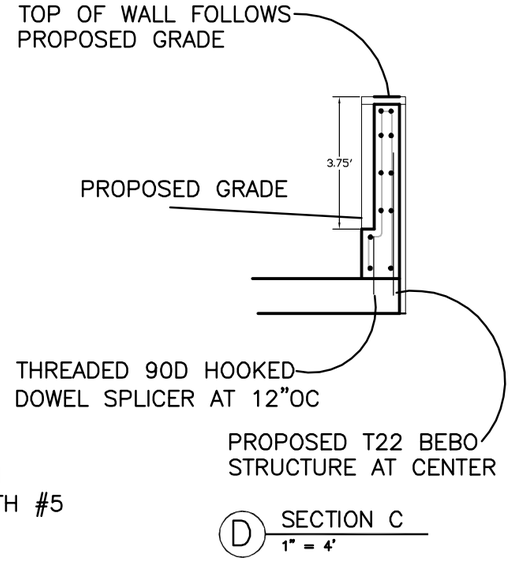
T22 STRUCTURE PLANS



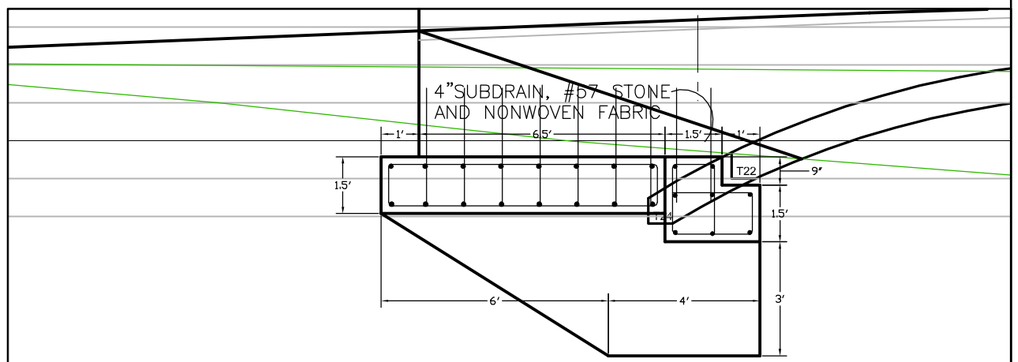
B SECTION A
1" = 4'



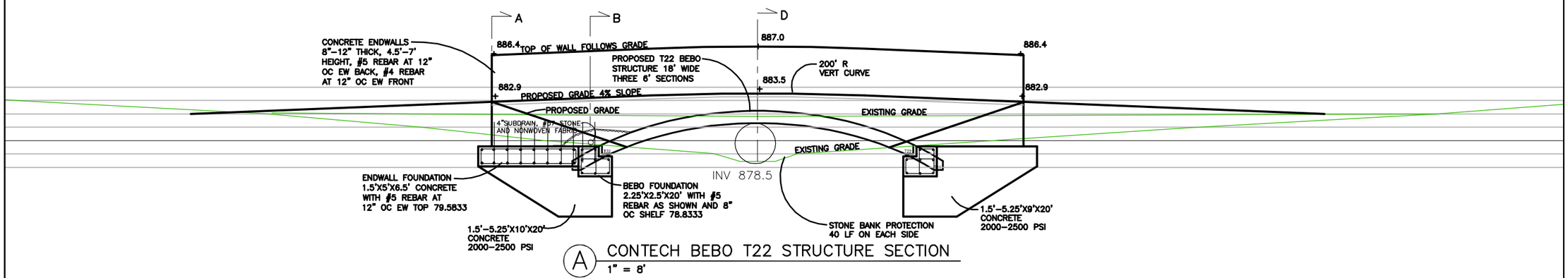
C SECTION B
1" = 4'



D SECTION C
1" = 4'



E ENDWALL/T22 FOUNDATIONS
1" = 4'



A CONTECH BEBO T22 STRUCTURE SECTION
1" = 8'

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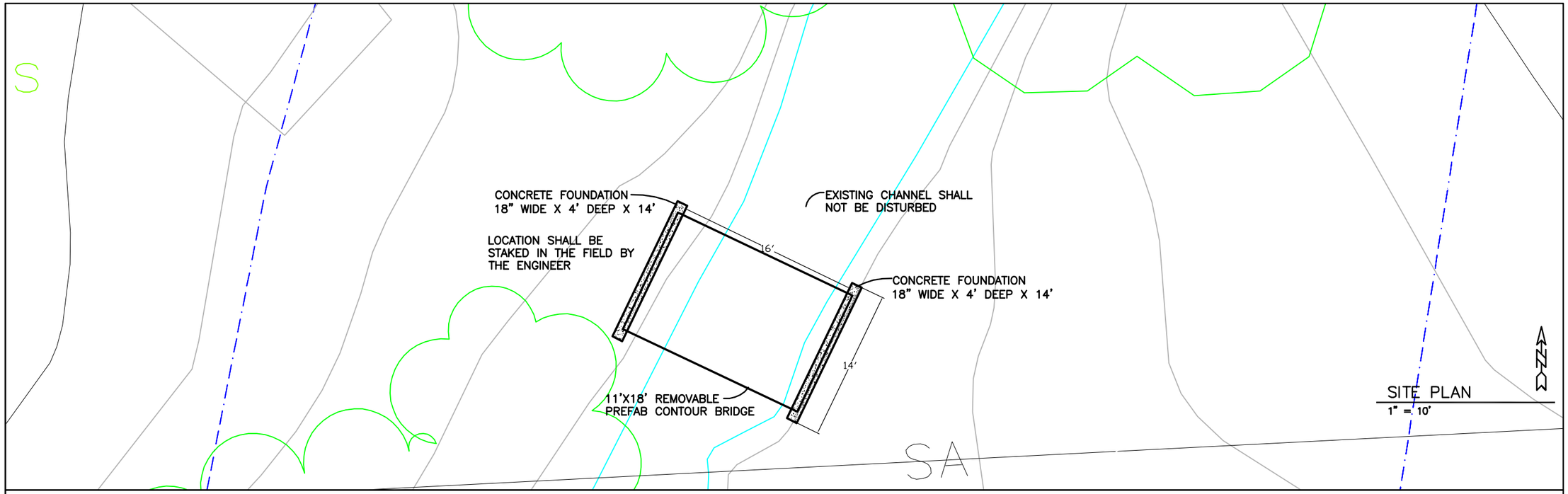
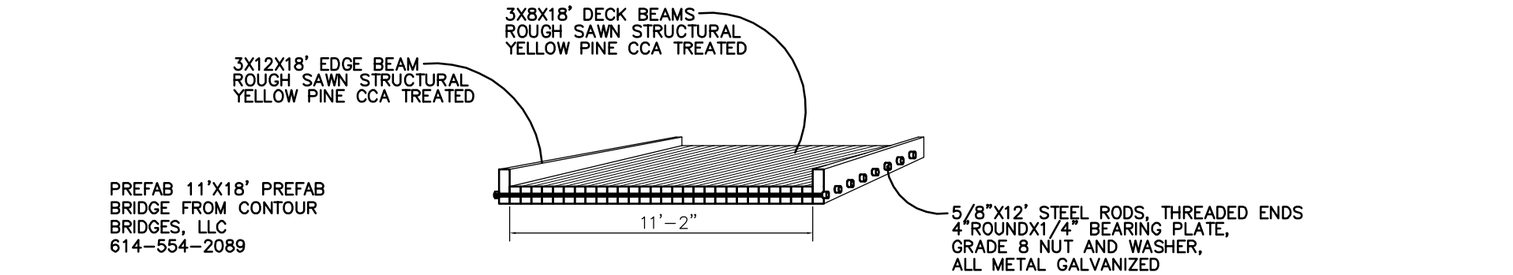
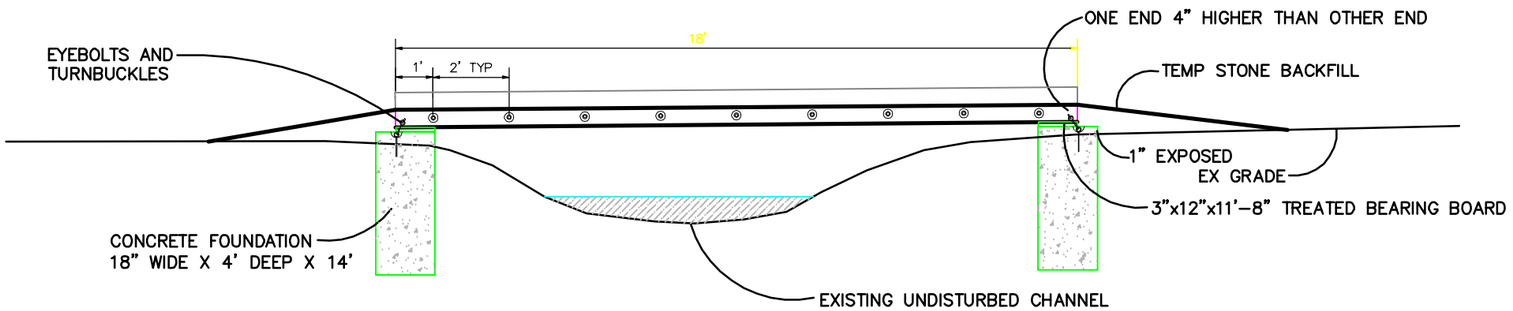
SES	C6

T22 STRUCTURE DETAILS







A 11'X18' REMOVABLE BRIDGE AND FOOTINGS

1/4"=1'

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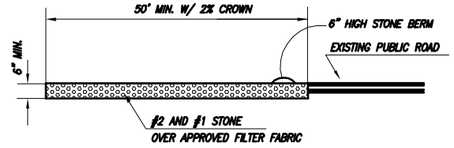
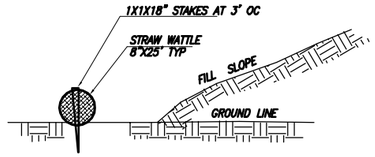
TEMP BRIDGE PLAN/DETAILS

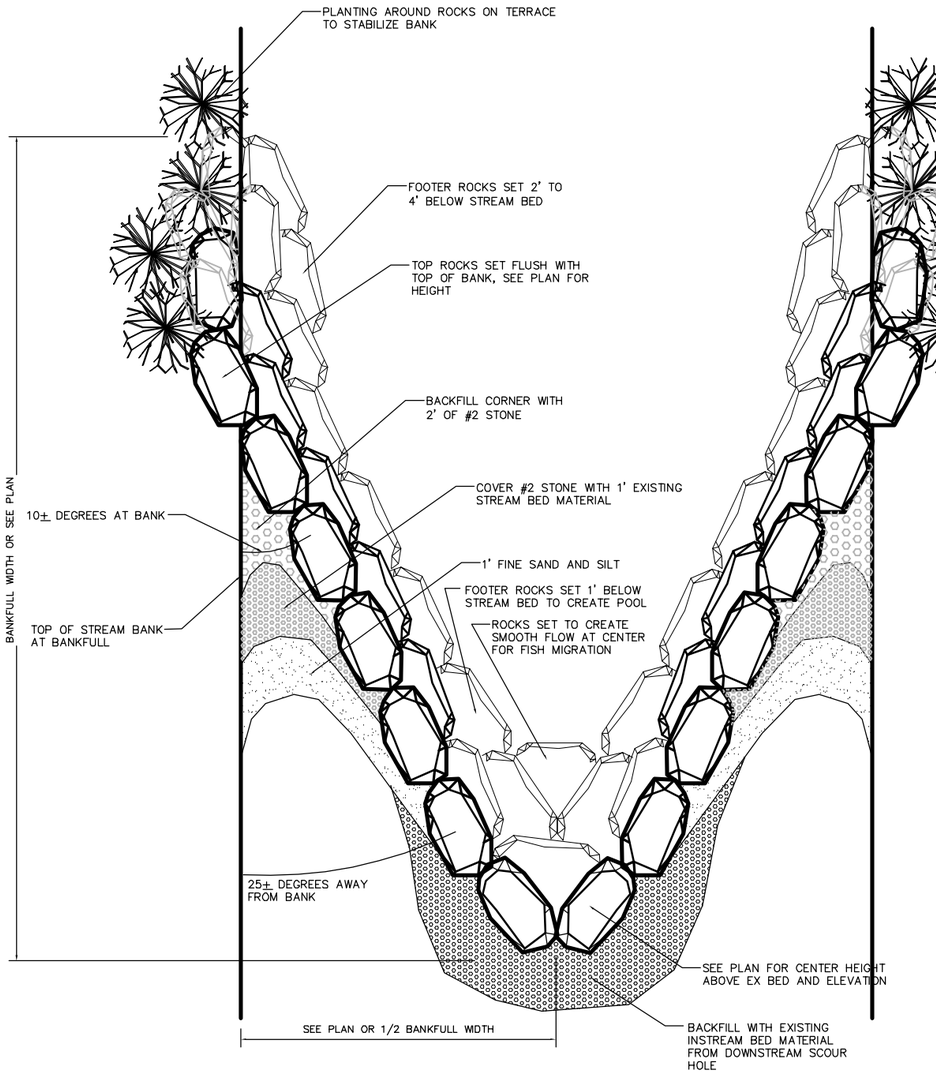


NOTES:
1. WIDTH OF CONSTRUCTION ENTRANCE TO BE 25' MIN., FLARED TO 30' AT ROAD
2. CONSTRUCTION ENTRANCE AND PARKING AREA TO BE STAKED AND APPROVED BY ENGINEER
3. CONSTRUCTION ENTRANCE GRADE TO MATCH EX.
4. PERIODICALLY REMOVE CONTAMINATED STONE AND REPLACE WITH CLEAN STONE.

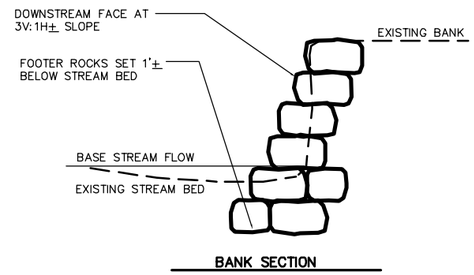
A CONSTRUCTION ENTRANCE
NOT TO SCALE



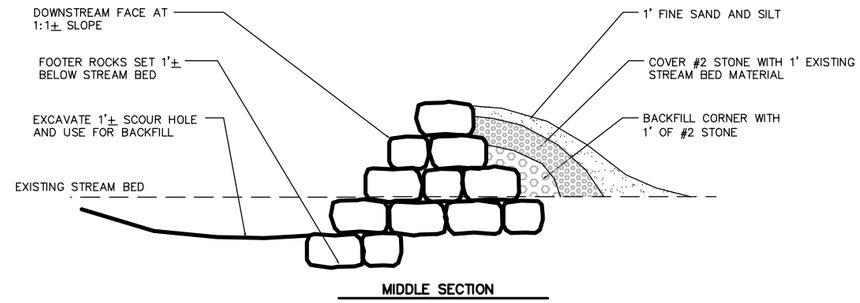
B STRAW WATTLE
NOT TO SCALE



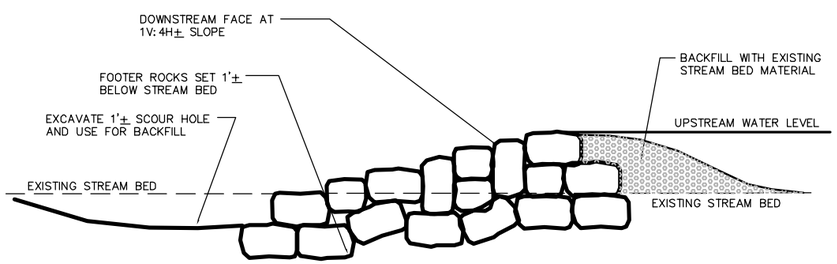
D ROCK V-WEIR
NOT TO SCALE



BANK SECTION



MIDDLE SECTION



CENTER WEIR SECTION

E ROCK VANE & WEIR SECTIONS
NOT TO SCALE

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STABILIZATION DETAILS