

CIVIL SITE NOTES

GENERAL

- 1. CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL LAWS AND REGULATIONS.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS AND APPROVALS AS NECESSARY FROM THE RESPECTIVE CITY, COUNTY, AND STATE AGENCIES PRIOR TO STARTING CONSTRUCTION.
3. FOR VIEWING CLARITY OF THESE PLANS, THE PIPES OR STRUCTURES MAY NOT BE DRAWN TO SCALE.
4. THE UTILITIES INDICATED ON THESE PLANS MAY NOT BE A COMPLETE INVENTORY OF ALL UTILITIES CURRENTLY ON OR NEAR THE SITE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING PUBLIC AND/OR PRIVATE UTILITY LOCATING SERVICES PRIOR TO STARTING CONSTRUCTION.
5. THE SIZE AND LOCATIONS OF THE UTILITIES INDICATED ON THESE PLANS ARE APPROXIMATE. THE CONTRACTOR IS TO DETERMINE AND FIELD VERIFY ALL HORIZONTAL AND VERTICAL LOCATIONS PRIOR TO STARTING CONSTRUCTION ACTIVITIES.
6. ANY DISCREPANCIES OR CONFLICTS WHICH BECOME APPARENT BEFORE OR DURING CONSTRUCTION SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER OF RECORD AND COR PRIOR TO CONSTRUCTION SO THAT REDESIGN OR CLARIFICATION MAY OCCUR.

DEMOLITION

- 1. ALL DEMOLISHED MATERIAL TO BECOME THE PROPERTY OF THE CONTRACTOR, UNLESS OTHERWISE NOTED, AND SHALL BE LEGALLY DISPOSED OF OFFSITE.
2. CONDUCT DEMOLITION AND CONSTRUCTION ACTIVITIES IN SUCH A MANNER TO PROVIDE MINIMUM TRAFFIC DISRUPTIONS. CONTRACTOR TO INSTALL TRAFFIC CONTROL DEVICES PER THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), LATEST EDITION, AS NECESSARY.
3. ALL EXISTING TREES TO REMAIN SHALL BE PRESERVED AND PROTECTED.
4. CONTRACTOR SHALL COORDINATE ALL WORK ASSOCIATED WITH THE REMOVAL, RELOCATION, AND DEMOLITION OF EXISTING UTILITIES WITH THE RESPECTIVE UTILITY COMPANY.
5. EXISTING UNDERGROUND ELECTRIC AND TELEPHONE CABLES THAT ARE SHOWN TO BE ABANDONED IN PLACE MAY BE CUT AS NECESSARY TO FACILITATE CONSTRUCTION ACTIVITIES. THE CONTRACTOR SHALL ENSURE THAT LINES ARE NOT ACTIVE PRIOR TO CUTTING.
6. CONTRACTOR TO MAINTAIN PROPER DRAINAGE IN DEMOLITION AREAS.
7. CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING DAMAGE TO EXISTING BUILDINGS AND/OR SITE ENTITIES THAT ARE TO REMAIN.
8. CONCRETE TO BE SAWCUT SHALL BE SAWCUT TO THE NEAREST CONCRETE JOINT BEYOND THE LIMITS ILLUSTRATED.

SITE PLAN

- 1. ALL DIMENSIONS ARE TO THE BACK OF CURB. WHEN CURBS ARE NOT PRESENT, DIMENSION ARE TO THE EDGE OF PAVEMENT.
2. ALL PARKING STALLS SHALL BE 9' X 18' UNLESS OTHERWISE NOTED.
3. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS ON THE SITE PRIOR TO CONSTRUCTION AND IDENTIFY DISCREPANCIES TO THE ENGINEER OF RECORD AND COR.
4. SEE SHEET CS501 FOR PROPOSED SITE IMPROVEMENT DETAILS REFERENCED.
5. WHERE WORK IS DONE IN EXISTING AREAS, THE EXISTING FINISHED CONDITIONS ARE TO BE REPAIRED OR REPLACED. THESE FINISHED CONDITIONS ARE TO MATCH EXISTING UNLESS OTHERWISE NOTED.

GRADING

- 1. CONTRACTOR SHALL ENSURE THAT POSITIVE DRAINAGE IN IMPROVED AREAS IS ACHIEVED. CONTRACTOR TO TEST AND CORRECT ANY "BIRD BATH" CONDITIONS.
2. ALL SLOPES SHALL BE 3:1 OR FLATTER, UNLESS OTHERWISE SHOWN.
3. ALL GRADES AT THE PROJECT BOUNDARY OR PROPERTY LINE SHALL MEET EXISTING GRADES.
4. BUILDING PAD AREAS AND PAVED AREAS DESIGNATED FOR FILL SHALL BE CONSTRUCTED OF SUITABLE FILL MATERIAL AND COMPACTED PER SPECIFICATIONS. ALL FILL AREAS ARE TO BE STRIPPED OF TOPSOIL PRIOR TO PLACEMENT OF FILL.
5. ANY EXCESS SOIL MATERIAL SHALL BE EXPORTED FROM THE SITE AFTER CONSTRUCTION IS COMPLETE.
6. CONTOURS ARE SHOWN AS A REFERENCE TO MEET JURISDICTIONAL REQUIREMENTS. CONTRACTOR SHOULD GRADE SITE PER THE PROPOSED SPOT GRADE ELEVATIONS.

UTILITIES

- 1. CONTRACTOR TO MAINTAIN ALL EXISTING UTILITIES TO STAY IN SERVICE DURING CONSTRUCTION.

- 2. CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES 72 HOURS PRIOR TO CONSTRUCTION TO VERIFY UTILITIES THAT MIGHT BE PRESENT ON SITE.
3. THE CONTRACTOR IS REQUIRED TO PROVIDE ADEQUATE SHEETING, SHORING, AND DEWATERING IN ALL TRENCHES AND EXCAVATIONS AS NECESSARY IN ACCORDANCE WITH OSHA; AND IS SOLELY RESPONSIBLE FOR THE SAFETY OF SHEETING, SHORING, AND DEWATERING.
4. WHEN CONNECTIONS ARE TO BE MADE TO EXISTING PIPING AND STRUCTURES OR WHERE CONSTRUCTION IS IN THE VICINITY OF EXISTING PIPING AND STRUCTURES SHALL BE FIELD VERIFIED BY THE CONTRACTOR. IF ANY DISCREPANCIES ARE FOUND, THEN THE ENGINEER AND COR SHALL BE NOTIFIED IMMEDIATELY.
5. ALL WORK SHALL BE PERFORMED IN A SAFE MANNER. ALL SAFETY RULES AND GUIDELINES OF O.S.H.A. SHALL BE FOLLOWED. THE CONTRACTOR SHALL BE WHOLLY RESPONSIBLE FOR ANY INJURIES TO HIS EMPLOYEES, AND ANY DAMAGE TO PRIVATE PROPERTY OR PERSONS DURING THE COURSE OF THIS PROJECT.
6. REFER TO SHEETS CU501 FOR PROPOSED UTILITY DETAILS REFERENCED.
7. WATER MAINS THROUGHOUT THE PROJECT SHALL BE INSTALLED WITH AT LEAST 48 INCHES OF COVER TO PROVIDE PROTECTION FROM FREEZING.
8. HORIZONTAL SEPARATION BETWEEN WATER & SEWER SHALL BE 10 FEET.
9. VERTICAL SEPARATION BETWEEN WATER & SEWER SHALL BE 18 INCHES.
10. WATER MAIN ALIGNMENT SHOWN IS BASED ON STANDARD FITTINGS AVAILABLE FOR DUCTILE IRON PIPE. JOINT DEFLECTIONS SHALL NOT EXCEED 75 PERCENT OF MANUFACTURER'S RECOMMENDED DEFLECTION.
11. CONTRACTOR SHALL ADJUST WATER MAIN ALIGNMENT AND DEFLECT JOINTS AS NECESSARY TO ACCOMMODATE THE STANDARD BENDS SHOWN.
12. MEASUREMENTS AND SLOPES SHOWN ARE FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE.
13. QUANTITIES PROVIDED ARE ESTIMATES AND SHALL BE CONFIRMED BY THE CONTRACTOR.

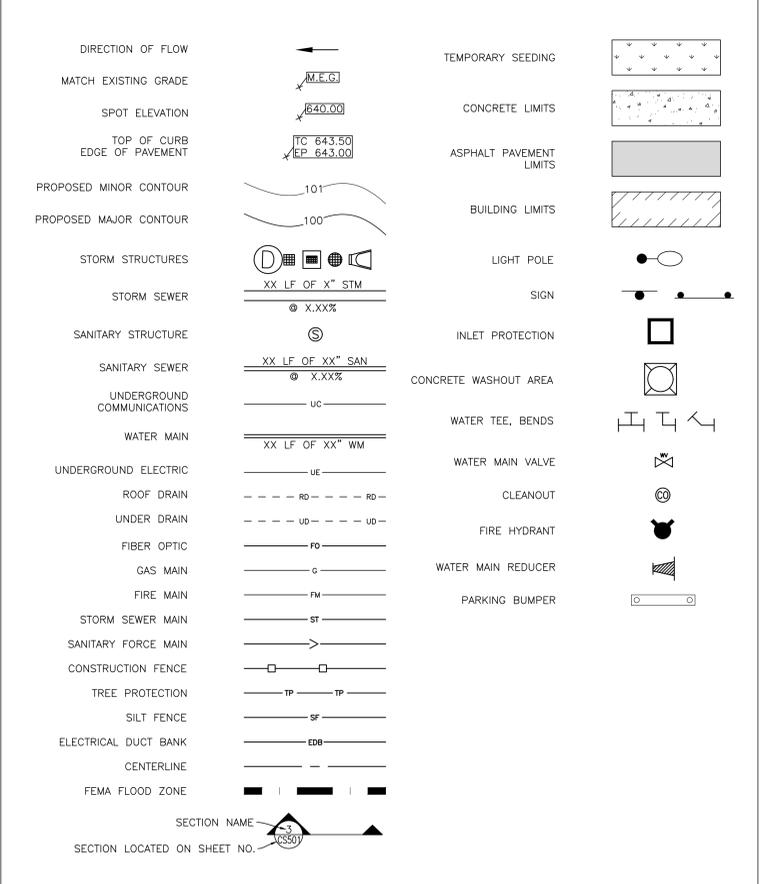
EROSION CONTROL

- 1. EROSION AND SEDIMENTATION CONTROL DEVICES TO BE INSTALLED PRIOR TO BEGINNING CONSTRUCTION.
2. STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, BUT IN NO CASE MORE THAN FOURTEEN (14) DAYS AFTER WORK HAS CEASED, UNLESS ACTIVITY IN THAT PART OF THE SITE WILL RESUME WITHIN TWENTY-ONE (21) DAYS.
3. PROVIDE SILT FENCE AND/OR OTHER CONTROL DEVICES, AS MAY BE REQUIRED, TO CONTROL SOIL EROSION DURING UTILITY CONSTRUCTION. ALL DISTURBED AREAS SHALL BE CLEANED, GRADED, AND STABILIZED WITH GRASSING IMMEDIATELY AFTER THE UTILITY INSTALLATION.
4. EROSION CONTROL AND SEDIMENTATION CONTROL DEVICES TO BE MAINTAINED SUCH THAT THEY FUNCTION AS INTENDED. AFTER COMPLETION OF THE PROJECT THE CONTRACTOR SHALL REMOVE ALL DEVICES WHERE A GOOD STAND OF GRASS HAS BEEN ESTABLISHED AND EROSION IS NO LONGER EVIDENT. REMOVAL OF THE REMAINING DEVICES SHALL OCCUR AS OTHER AREAS ARE ESTABLISHED.
5. EROSION CONTROL MEASURES SHALL BE INSPECTED EVERY SEVEN (7) DAYS OR AFTER EACH RAINFALL OCCURRENCE THAT EXCEEDS ONE-HALF (1/2) INCH. DAMAGED OR INEFFECTIVE DEVICES SHALL BE REPAIRED OR REPLACED IMMEDIATELY.
6. ALL AREAS DISTURBED BY GRADING, EXCAVATION, AND GENERAL CONSTRUCTION SHALL BE SEEDED, MULCHED, AND RESTORED IN ACCORDANCE WITH THE SPECIFICATIONS.
7. THE CONTRACTOR MUST TAKE NECESSARY ACTION TO MINIMIZE THE TRACKING OF MUD ONTO PAVED ROADWAYS. THE CONTRACTOR SHALL DAILY REMOVE MUD/SOIL FROM PAVEMENT, AS MAY BE REQUIRED.
8. SEE SHEET CU501 FOR PROPOSED EROSION AND SEDIMENT CONTROL DETAILS REFERENCED.

CIVIL SITE ABBREVIATIONS

Table with 3 columns of abbreviations and their corresponding full names. Includes terms like ACRE, AGGREGATE BASE COURSE, ALTERNATE, APPROXIMATE, AIR RELEASE VALVE, ASPHALT, ASSEMBLY, BACK OF CURB, BACKFLOW PREVENTER, BUILDING, BUILT, BENCHMARK, BOUNDARY, BLOW OFF, etc.

PROPOSED LEGEND



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ARCHITECT/ENGINEERS:

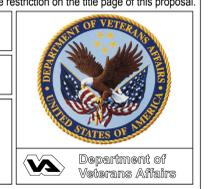
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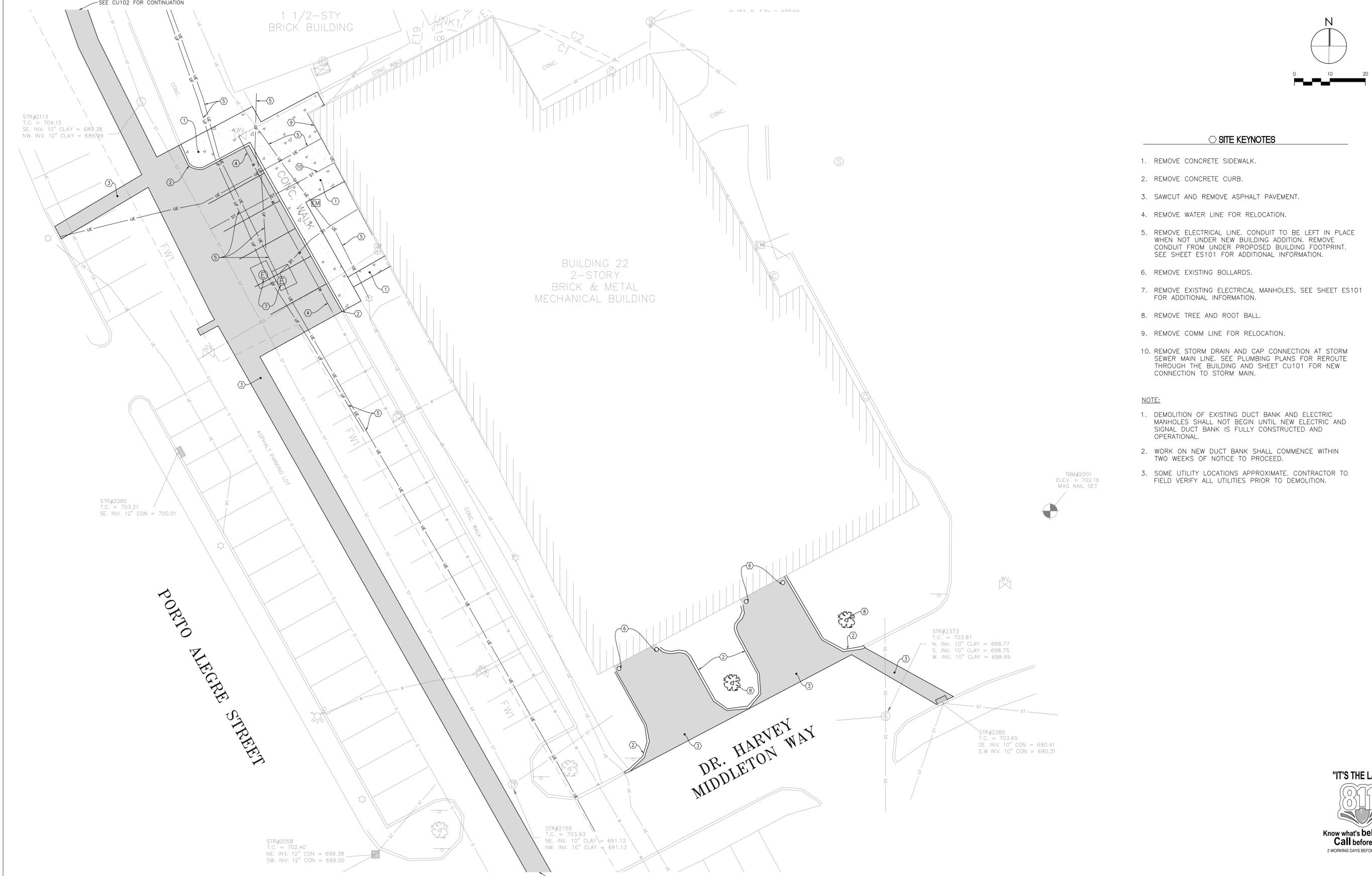
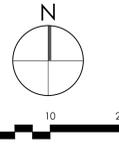
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Table with 2 columns: Drawing Title (GENERAL NOTES), Approved: (List of names and titles like Steve Robinson, Melissa Cox, etc.), Date (09/23/2016), Checked (SLP), Drawn (TPK).

Table with 2 columns: Project Title (INSTALL PRIMARY AND EMERGENCY POWER SYSTEMS), Project Number (583-15-102), Building Number (22), Location (INDIANAPOLIS, INDIANA), Drawing Number (CC001), Date (09/23/2016).



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SITE KEYNOTES

1. REMOVE CONCRETE SIDEWALK.
2. REMOVE CONCRETE CURB.
3. SAWCUT AND REMOVE ASPHALT PAVEMENT.
4. REMOVE WATER LINE FOR RELOCATION.
5. REMOVE ELECTRICAL LINE. CONDUIT TO BE LEFT IN PLACE WHEN NOT UNDER NEW BUILDING ADDITION. REMOVE CONDUIT FROM UNDER PROPOSED BUILDING FOOTPRINT. SEE SHEET ES101 FOR ADDITIONAL INFORMATION.
6. REMOVE EXISTING BOLLARDS.
7. REMOVE EXISTING ELECTRICAL MANHOLES, SEE SHEET ES101 FOR ADDITIONAL INFORMATION.
8. REMOVE TREE AND ROOT BALL.
9. REMOVE COMM LINE FOR RELOCATION.
10. REMOVE STORM DRAIN AND CAP CONNECTION AT STORM SEWER MAIN LINE. SEE PLUMBING PLANS FOR REROUTE THROUGH THE BUILDING AND SHEET CU101 FOR NEW CONNECTION TO STORM MAIN.

NOTE:

1. DEMOLITION OF EXISTING DUCT BANK AND ELECTRIC MANHOLES SHALL NOT BEGIN UNTIL NEW ELECTRIC AND SIGNAL DUCT BANK IS FULLY CONSTRUCTED AND OPERATIONAL.
2. WORK ON NEW DUCT BANK SHALL COMMENCE WITHIN TWO WEEKS OF NOTICE TO PROCEED.
3. SOME UTILITY LOCATIONS APPROXIMATE. CONTRACTOR TO FIELD VERIFY ALL UTILITIES PRIOR TO DEMOLITION.

three inches = one foot
one and one-half inch = one foot
one inch = one foot
three-quarters inch = one foot
one-half inch = one foot
three-eighths inch = one foot
one-eighth inch = one foot

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100% BID DOCUMENTS FOR CONSTRUCTION	09/23/2016
Revisions:	Date

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 STRUCTURAL ENGINEER DAVE STEK
 MECHANICAL ENGINEER CASSANDRA DALLER
 PLUMBING ENGINEER CASSANDRA DALLER
 ELECTRICAL ENGINEER MARK FIFER

Drawing Title
DEMOLITION PLAN

Approved:

Project Title
INSTALL PRIMARY AND EMERGENCY POWER SYSTEMS

Project Number
583-15-102

Building Number
22

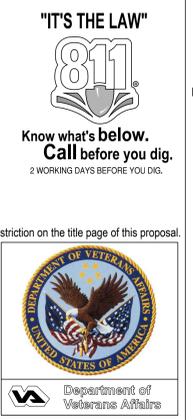
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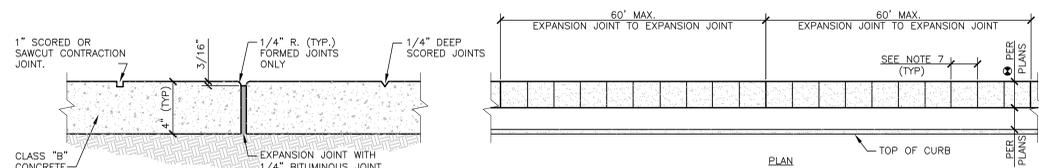
Date
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Drawing Number
CD101

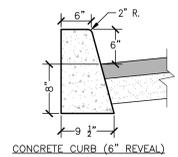




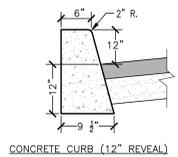
- NOTES:**
1. EXPANSION JOINTS SHALL BE LOCATED WHERE SIDEWALK ABUTS CONCRETE DRIVEWAYS, CURB OR OTHER ADJACENT STRUCTURES.
 2. ONE-HALF INCH BITUMINOUS JOINT FILLER SHALL BE INSTALLED AT EXPANSION JOINT LOCATIONS AND SHALL EXTEND THE FULL DEPTH OF THE CONCRETE.
 3. 1\"/>

CONCRETE SIDEWALK

NTS

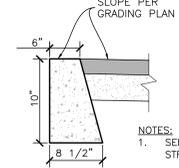


- NOTES:**
1. ALL CONCRETE CURBS AND TRANSITIONS, SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 2,500 PSI.
 2. MAXIMUM SPACING ON SCORED JOINTS SHALL BE 15\"/>



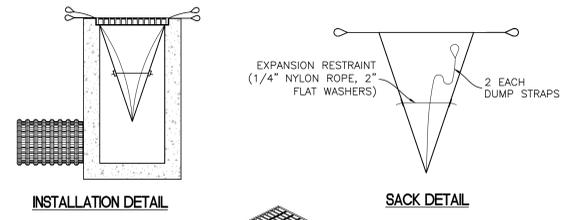
CONCRETE STRAIGHT CURB

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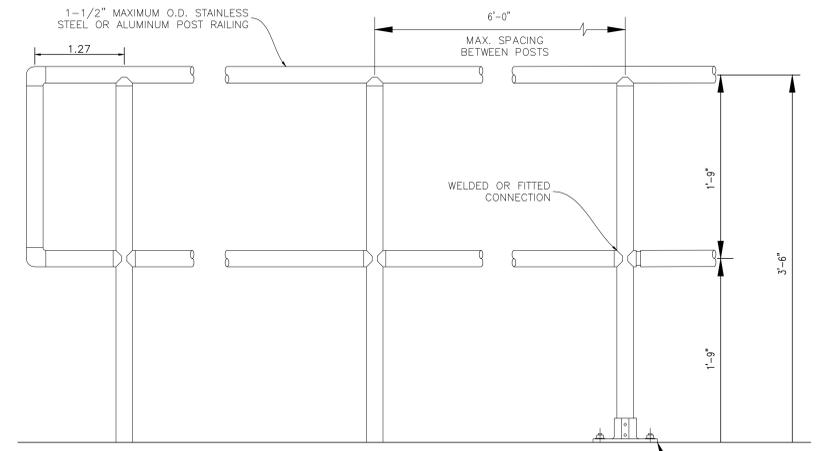
CONCRETE FLUSH CURB

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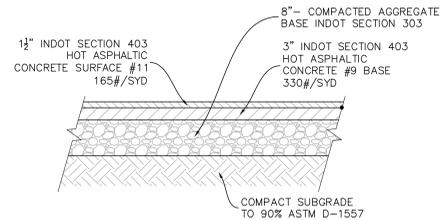
INLET PROTECTION SACK

NTS



METAL RAILING

NTS



TYPICAL PAVEMENT SECTION

NTS

SEASONAL SOIL PROTECTION CHART												
STABILIZATION PRACTICE	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.
PERMANENT SEEDING	A											
DORMANT SEEDING	B											
TEMPORARY SEEDING	C											
SODDING	F											
MULCHING	G											

A = KENTUCKY BLUEGRASS 100 LBS./ACRE; CREEPING RED FESCUE 100 LBS./ACRE; PLUS 2 TONS STRAW MULCH/ACRE, OR ADD ANNUAL RYEGRASS 20 LBS./ACRE FERTILIZE AS RECOMMENDED BY SOIL TEST. IF TESTING IS NOT DONE, APPLY 400-600 LBS./ACRE OF 12-12-12 ANALYSIS, OR EQUIVALENT, FERTILIZER.

B = KENTUCKY BLUEGRASS 120 LBS./ACRE; CREEPING RED FESCUE 120 LBS./ACRE; PLUS 2 TONS STRAW MULCH/ACRE, OR ADD ANNUAL RYEGRASS 30 LBS./ACRE FERTILIZE AS RECOMMENDED BY SOIL TEST. IF TESTING IS NOT DONE, APPLY 400-600 LBS./ACRE OF 12-12-12 ANALYSIS, OR EQUIVALENT, FERTILIZER.

C = SPRING OATS 3 BUSHELS/ACRE FERTILIZE AS RECOMMENDED BY SOIL TEST. IF TESTING IS NOT DONE, APPLY 400-600 LBS./ACRE OF 12-12-12 ANALYSIS, OR EQUIVALENT, FERTILIZER.

D = WHEAT OR RYE 2 BUSHELS/ACRE FERTILIZE AS RECOMMENDED BY SOIL TEST. IF TESTING IS NOT DONE, APPLY 400-600 LBS./ACRE OF 12-12-12 ANALYSIS, OR EQUIVALENT, FERTILIZER.

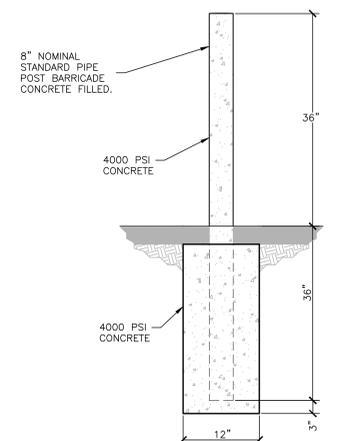
E = ANNUAL RYEGRASS 40 LBS./ACRE (1 LB/1000 SQ. FT.) FERTILIZE AS RECOMMENDED BY SOIL TEST. IF TESTING IS NOT DONE, APPLY 400-600 LBS./ACRE OF 12-12-12 ANALYSIS, OR EQUIVALENT, FERTILIZER.

F = SOD

G = STRAW MULCH 2 TONS/ACRE

* / / * = IRRIGATION NEEDED DURING JUNE, JULY, AUGUST AND/OR SEPTEMBER

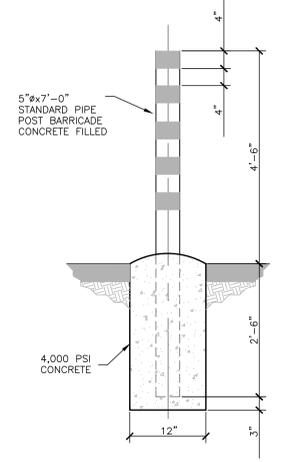
** = IRRIGATION NEEDED FOR 2 WEEKS AFTER SUPPLYING SOD



- NOTES:**
1. BOLLARD TO BE PAINTED. FINISH COLOR SHALL BE COORDINATED WITH THE COR.
 2. BOLLARD IS INTENDED TO BE 8\"/>

8\"/>

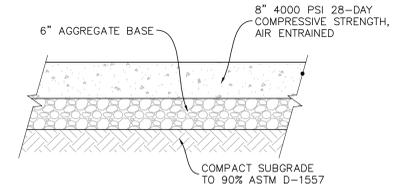
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- NOTES:**
1. POST BARRICADES SHALL BE PAINTED SOLID YELLOW TO MATCH EXISTING BOLLARDS. CONTRACTOR TO COORDINATE WITH THE COR.

CONCRETE POST BARRICADES

NTS



HEAVY DUTY CONCRETE PAVEMENT SECTION

NTS

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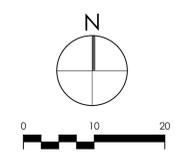
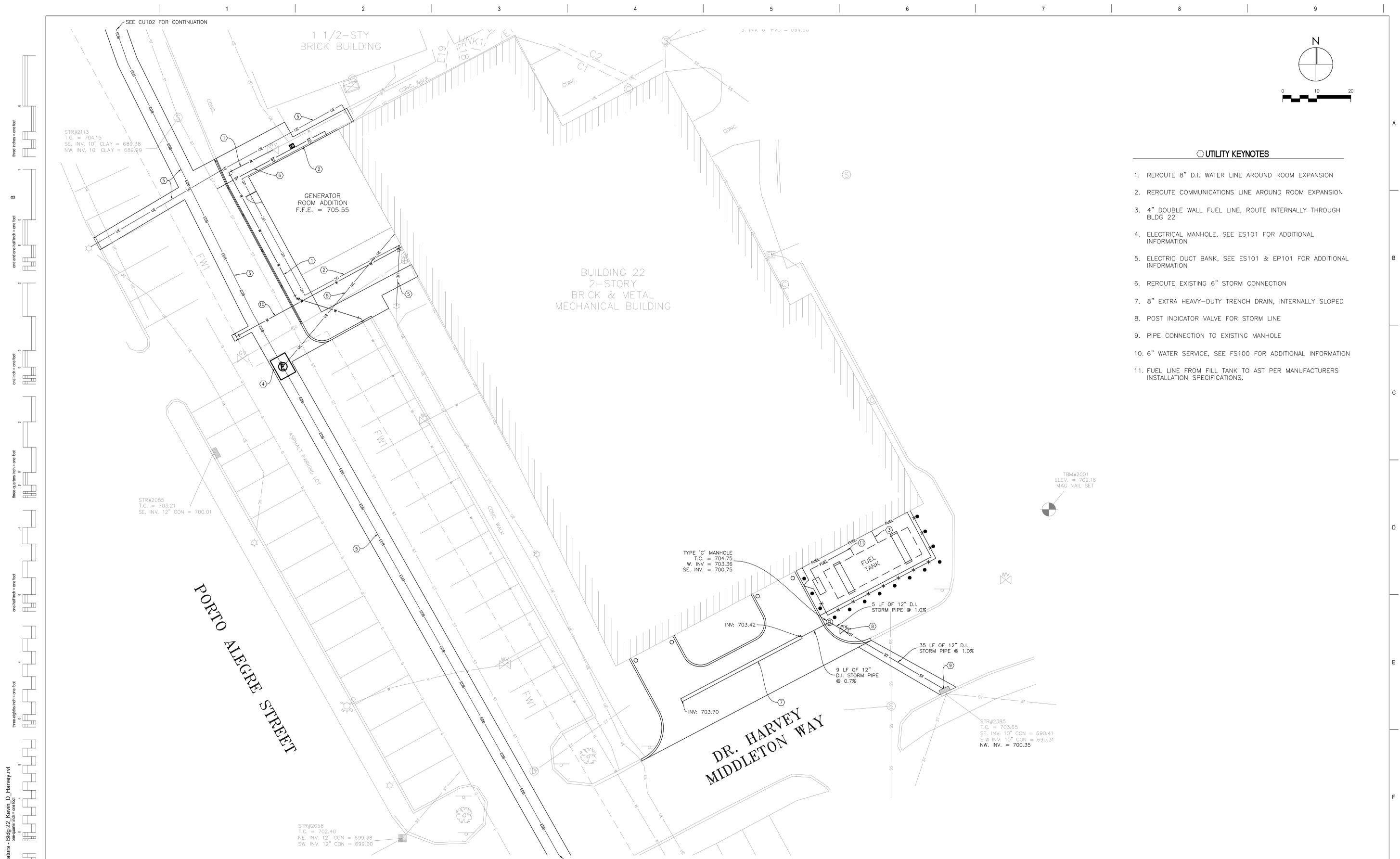
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MECHANICAL ENGINEER	CASSANDRA DALLER
PLUMBING ENGINEER	CASSANDRA DALLER
ELECTRICAL ENGINEER	MARK FIFER

Drawing Title	
SITE AND EROSION CONTROL DETAILS	
Approved:	
Date	09/23/2016
Checked	SLP
Drawn	TPK

Project Title	
INSTAL PRIMARY AND EMERGENCY POWER SYSTEMS	
Location	
INDIANAPOLIS, INDIANA	
Date	09/23/2016
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Project Number	
583-15-102	
Building Number	
22	
Drawing Number	
CS501	



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UTILITY KEYNOTES

1. REROUTE 8" D.I. WATER LINE AROUND ROOM EXPANSION
2. REROUTE COMMUNICATIONS LINE AROUND ROOM EXPANSION
3. 4" DOUBLE WALL FUEL LINE, ROUTE INTERNALLY THROUGH BLDG 22
4. ELECTRICAL MANHOLE, SEE ES101 FOR ADDITIONAL INFORMATION
5. ELECTRIC DUCT BANK, SEE ES101 & EP101 FOR ADDITIONAL INFORMATION
6. REROUTE EXISTING 6" STORM CONNECTION
7. 8" EXTRA HEAVY-DUTY TRENCH DRAIN, INTERNALLY SLOPED
8. POST INDICATOR VALVE FOR STORM LINE
9. PIPE CONNECTION TO EXISTING MANHOLE
10. 6" WATER SERVICE, SEE FS100 FOR ADDITIONAL INFORMATION
11. FUEL LINE FROM FILL TANK TO AST PER MANUFACTURERS INSTALLATION SPECIFICATIONS.

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 three-eighths inch = one foot
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 one and one-half inch = one foot
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 three inches = one foot

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PLUMBING ENGINEER CASSANDRA DALLER
ELECTRICAL ENGINEER MARK FIFER

URS PROJECT NO. 25628031

Drawing Title
UTILITY PLAN

Approved:

Project Title
INSTALL PRIMARY AND EMERGENCY POWER SYSTEMS

Project Number
583-15-102

Building Number
22

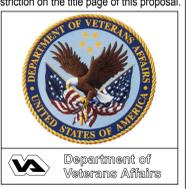
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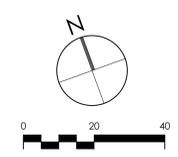
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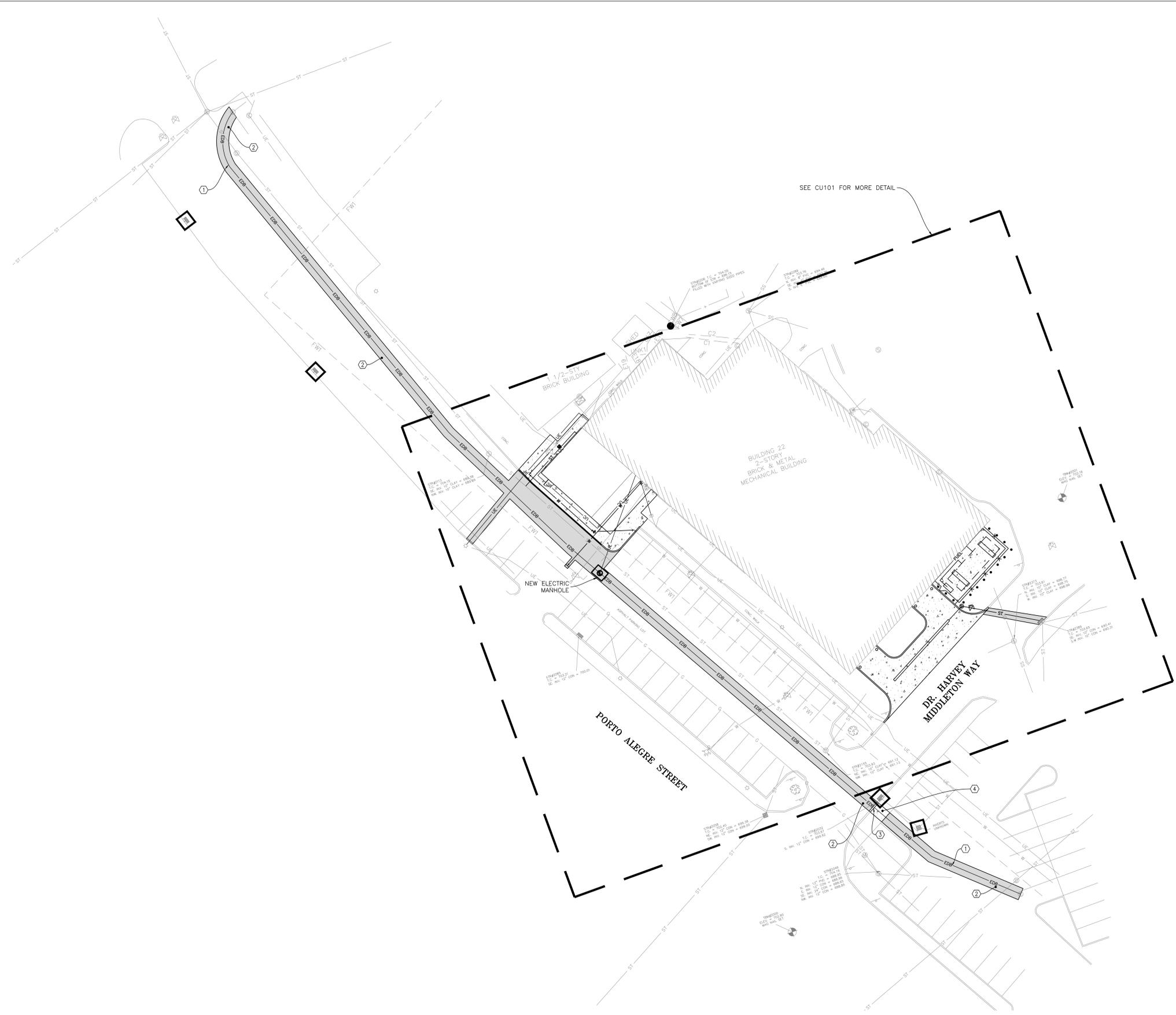
UTILITY KEYNOTES

1. ELECTRICAL DUCT BANK, SEE ES101 & EP101 FOR ADDITIONAL INFORMATION
2. REMOVE AND REPLACE ASPHALT PAVEMENT FOR UTILITY TRENCH.
3. REMOVE AND REPLACE CONCRETE CURB FOR UTILITY TRENCH.
4. REMOVE AND REPLACE CONCRETE SIDEWALK FOR UTILITY TRENCH.

LEGEND

- CONCRETE
- ASPHALT
- INLET PROTECTION

NOTE:
 NEW ELECTRIC AND SIGNAL DUCT BANK TO BE FULLY CONSTRUCTED - NEW ROUTES & CABLES INSTALLED, CONNECTED, TESTED AND OPERATIONAL - BEFORE DEMOLITION OF THE EXISTING DUCT BANK AND MANHOLES.



SEE CU101 FOR MORE DETAIL

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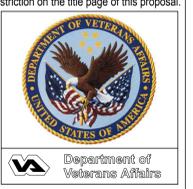
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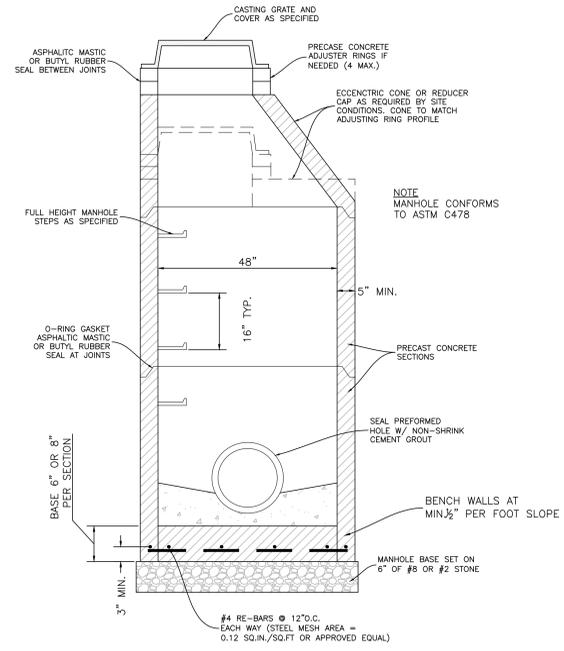
Drawing Title
UTILITY PLAN

Approved:

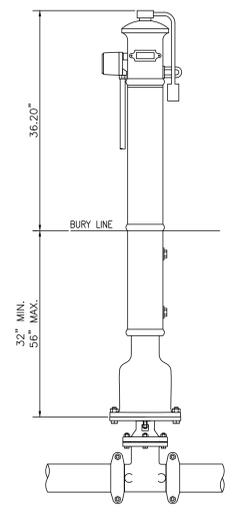
Project Title INSTALL PRIMARY AND EMERGENCY POWER SYSTEMS		Project Number 583-15-102
Location INDIANAPOLIS, INDIANA		Building Number 22
Date 09/23/2016	Checked SLP	Drawn TPK
Drawing Number CU102		



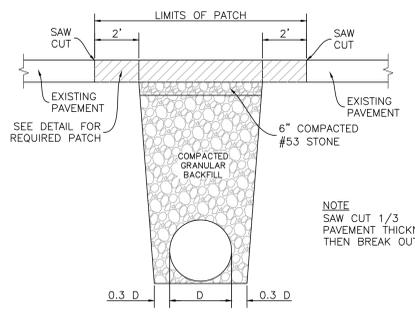
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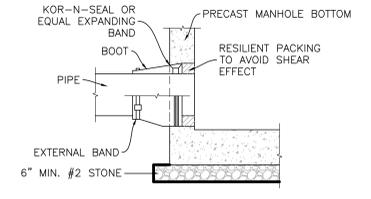
TYPE 'C' MANHOLE
NTS



POST INDICATOR VALVE
NTS



TRENCH CUT AT PAVEMENT
NTS



PIPE CONNECTION TO EXISTING MANHOLE
NTS

100% BID DOCUMENTS FOR CONSTRUCTION	09/23/2016
Revisions:	Date

DEVELOPER/CONTRACTOR:



ARCHITECT/ENGINEERS:

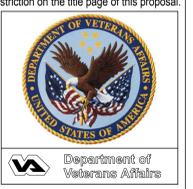
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URS PROJECT NO. 25628031

Drawing Title	UTILITY DETAILS
Approved:	

Project Title	INSTALL PRIMARY AND EMERGENCY POWER SYSTEMS
Project Number	583-15-102
Building Number	22
Location	INDIANAPOLIS, INDIANA
Date	09/23/2016
Checked	SLP
Drawn	TPK
Drawing Number	CU501



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