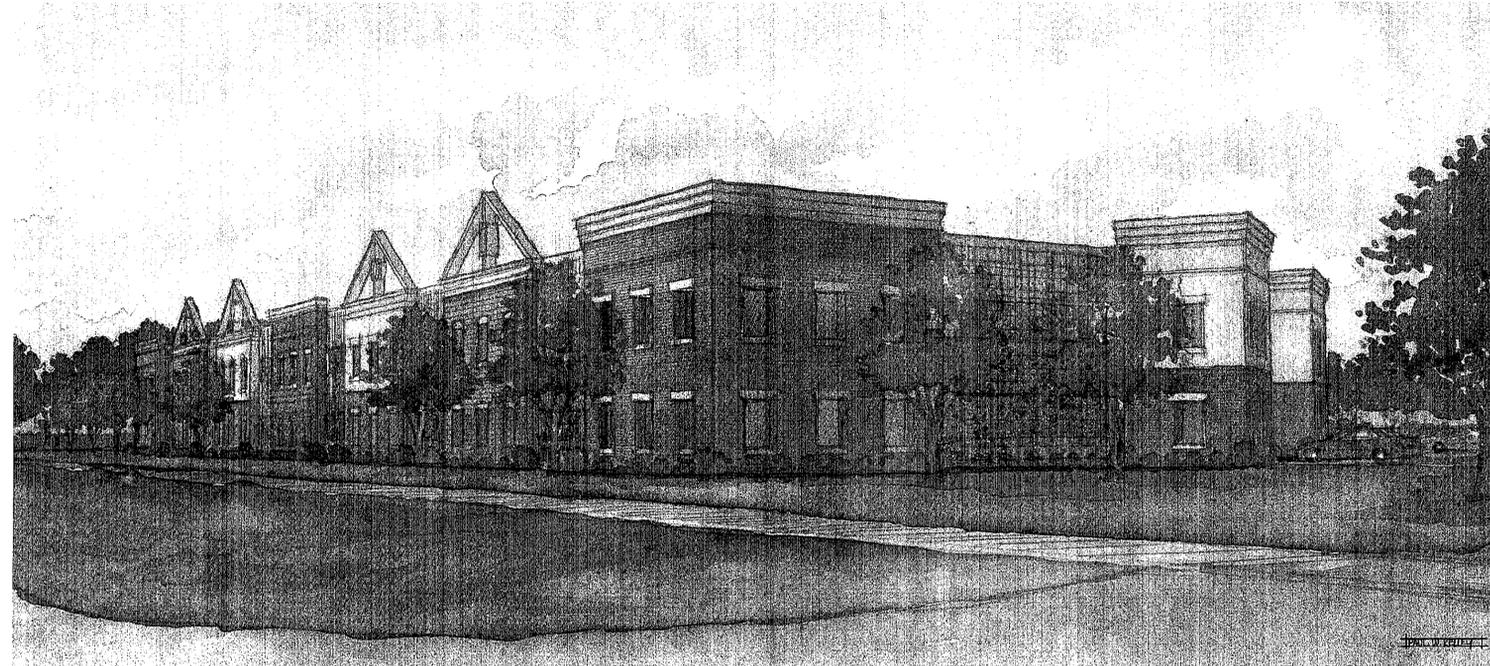


# GROVE CITY LUMBERYARD

GROVE CITY, OHIO

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Landscaping Plan	G/L1.01
Landscaping Plan	G/L2.01
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## PARKING GARAGE CONSTRUCTION DOCUMENTS

MAY 22, 2009

### ARCHITECT:

Bird Houk Collaborative  
600 Creekside Plaza  
Gahanna, OH 43230  
Phone: 614-418-0600

### STRUCTURAL ENGINEER:

Jezerinac Geers & Associates  
5640 Frantz Rd.  
Dublin, Ohio 43017  
Phone: 614-766-0066

### CIVIL ENGINEER:

E.M.H.T.  
5500 New Albany Road  
Columbus, Ohio 43054  
Phone: 614-775-4500

### LANDSCAPE ARCHITECT:

Bird Houk Collaborative  
600 Creekside Plaza  
Gahanna, OH 43230  
Phone: 614-418-0600

### CONSTRUCTION MANAGER:

The Stonehenge Company  
147 North High St.  
Gahanna, Ohio 43230  
Phone: 614-509-9000

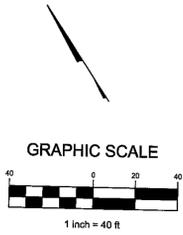
### MECH./ELECT./PLUMB. ENGINEER:

Prater Engineering Associates  
6130 Wilcox Rd.  
Dublin, Ohio 43016  
Phone: 614-766-4896

CITY ADMINISTRATOR	_____
SERVICE DIRECTOR	_____
REVIEW FOR THE CITY OF GROVE CITY	_____
JACKSON TOWNSHIP FIRE DEPARTMENT	_____



STRUCTURE #	LENGTH	BEARING	SIZE
1-2	128.00	S86°12'04"E	12"
2-3	182.00	N86°12'04"W	12"
3-4	262.28	N86°08'37"W	12"
4-5	30.72	S86°08'37"E	12"
5-6	40.66	N1°32'08"W	12"
6 (WQ Structure)-7	10.05	S1°32'08"W	12"
7-8	60.72	N55°35'53"W	12"
8-9	149.94	N32°38'48"E	54"
9-10	159.87	N32°38'48"E	54"
7-11	15.00	N55°36'45"W	12"
11-12	139.91	N87°23'41"W	48"
12-13	114.81	S86°52'23"E	48"
4-14	5.24	S1°51'23"W	12"
4-15	25.63	S6°05'50"E	12"
12-16	44.68	S28°07'53"E	12"



Proposed Concrete Pavement

**NOTE:**  
All connections to existing utilities are to be core drilled.

Contractor shall exercise extreme caution while working in the vicinity of existing utilities. The existing utilities shall be exposed such that the line and grade can be verified and evaluated for conflict with the design of the proposed infrastructure. Verification shall be performed sufficiently in advance of the construction of the various underground utilities so that if there are conflicts, the Engineer can be contacted to facilitate the preparation of appropriate plan revisions and applicable approvals can be obtained.

All valves under pavement to be heavy duty.

All valves under landscape area to be standard duty.

Pads for transformer and secondary enclosures to be provided by sitework contractor per AEP Specifications and details provided to the owner.

- DWS = Private Domestic Water System
- FI = Fire Hydrant
- San = Sanitary
- Sas = Sanitary Service
- Stm = Storm
- RD = Roof Drain
- FF = Finished Floor

**SITE STATISTICS:**

**Building**  
Gross Building Area: 102,852 Square Feet

**Site**  
Total Site Acreage: 3.83 Acres  
166,859 Square Feet

**FDP Site Acreage:**  
1.502 Acres  
65,423 Square Feet

**Zoning:**  
The Site is currently zoned for the site is Planned Unit Development-Commercial.

**Parking:**  
Proposed Garage Parking - 282 Spaces  
with Van Accessible - 1 Space  
Handicap - 6 Space

**FEMA:**  
According to the Federal Emergency Management Agency's Flood Insurance Map (dated June 17, 2008), the subject parcel shown hereon lies within Zone X (areas determined to be outside of the 0.2% annual chance floodplain), Community Panel No. 39049C0313K.

**Stormwater:**  
The 48" and 54" pipe have been oversized to provide detention for the site.  
A Hydrodynamic Device will be installed in Structure 6, to meet the water quality requirements.

**WATER SERVICE NOTES**

No service connection permits shall be issued or connections made to any service taps until waterlines have been disinfectanted by the City of Columbus, Division of Water.

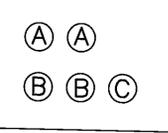
No water service construction shall begin prior to permits being issued by the Columbus Division of Water.

Site Utility Contractor shall call 645-8874 for inspection of 12" Ductile Iron Combined Domestic and Fire Protection Water Service from the 12" water main thru meter.

Meters settings as per City of Columbus Division of Water Standard Detail Drawings L-6317 A,B,C,D & E Dated 04-01-01.

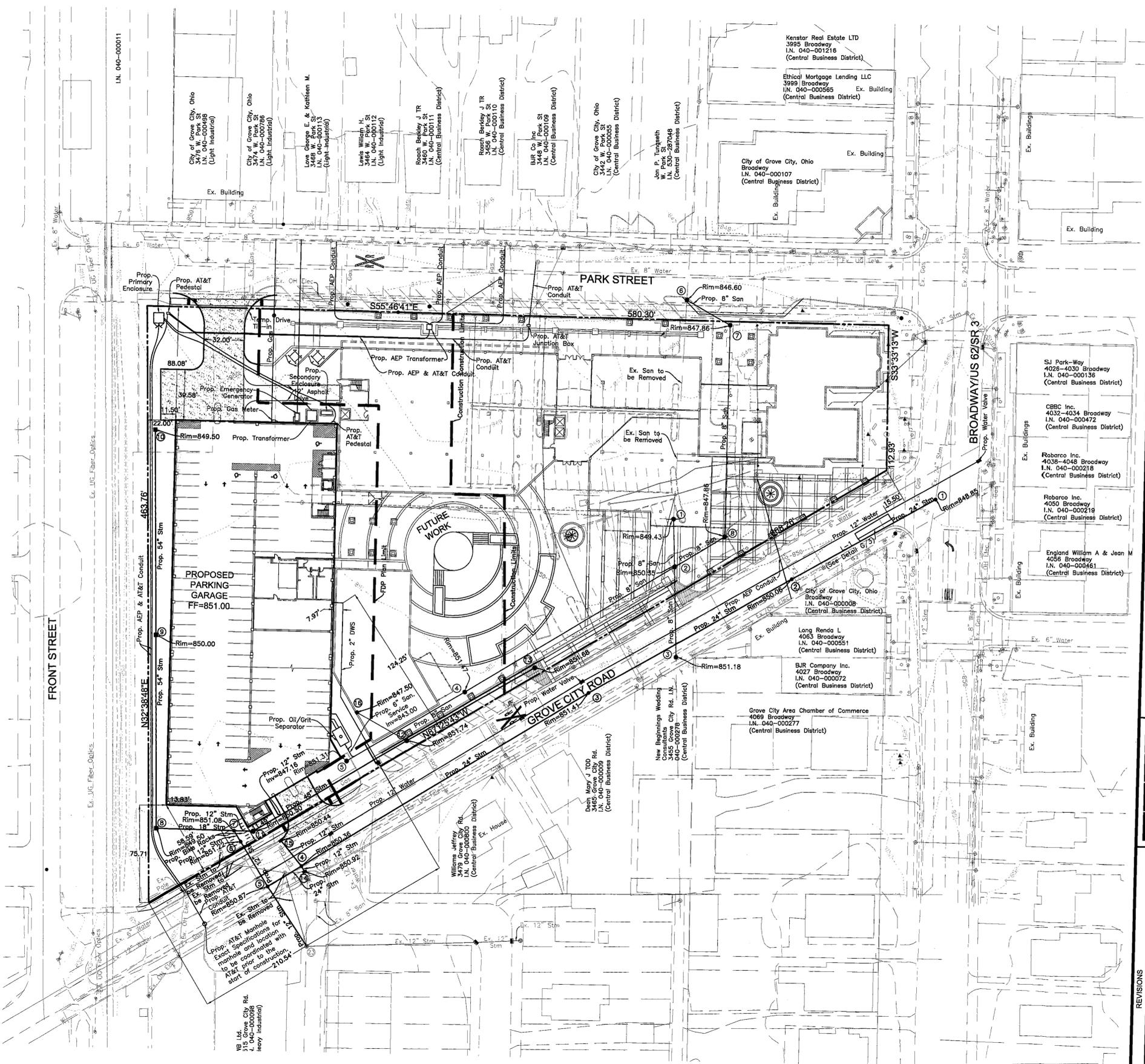
Each Building shall have an ASSE #1013 RPZ Backflow Prevention on the domestic services and a ASSE #1015 Backflow Prevention Assembly per Columbus Division of Water Standard Drawing L-9002 A & B dated 04-01-01.

All 3" through 16" water service pipe shall be ductile iron from watermain through meter setting including meter bypass.



Duct Bank Detail  
Scale: NTS

- A= 4" AEP
- B= 4" AT&T
- C= 4" Cable



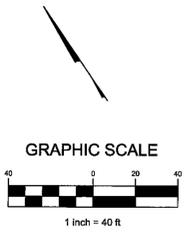
CITY OF GROVE CITY, FRANKLIN COUNTY, OHIO  
FINAL DEVELOPMENT PLAN  
FOR  
**LUMBERYARD REDEVELOPMENT - PARKING GARAGE**  
3485 PARK STREET  
SITE DIMENSION/UTILITY PLAN

Job No. 2008-2261  
Date May 22, 2009  
Scale 1" = 40'  
Sheet 3

**EMIT**  
EVANS, MACHOWSKI, HANBIBSON & ITRON, INC.  
Engineers • Surveyors • Planners • Scientists  
10000 Grove City Road, Columbus, OH 43240  
Phone: 614.776.4500  
Fax: 614.776.7525  
www.emit.com

MARK	DATE	DESCRIPTION

- Legend**
- ⊕ = Metal Traffic Signal Pole
  - ⊕ = Traffic Lighting Pull Box
  - ⊕ = Traffic Lighting Control Box
  - ⊕ = Utility Pole
  - ⊕ = Guy Wire w/Anchor
  - ⊕ = Light Pole
  - ⊕ = Yard Light/Flood Light
  - ⊕ = Electric Transformer
  - ⊕ = Electric Pedestal
  - ⊕ = Electric Outlet
  - ⊕ = Air Condition Unit
  - ⊕ = Gas Meter
  - ⊕ = Gas Valve
  - ⊕ = Gas Service
  - ⊕ = Fire Hydrant
  - ⊕ = Water Valve
  - ⊕ = Water Service
  - ⊕ = Sprinkler Control Box
  - ⊕ = Telephone Pole
  - ⊕ = Telephone Manhole
  - ⊕ = Sanitary Manhole
  - ⊕ = Cleanout
  - ⊕ = Curb Inlet
  - ⊕ = Catch Basin
  - ⊕ = Storm Manhole
  - ⊕ = Flag Pole
  - ⊕ = Sign
  - ⊕ = Benchmark



**Notes:**

See Sheet 3 for details of Pavement, Sidewalks, and Curb Sections.

All Ramps and Curb Ramps shall Comply with: ADAAG 4.8.1, ADAAG 4.8.2, ADAAG 4.8.3, ADAAG 4.8.4, ADAAG 4.8.5, AND ADAAG 4.8.6

For Storm Sewer Size, Slope, Type and Invert See Sheet 8, Storm Sewer Profiles.

For Sanitary Sewer Profiles, Top of Castings and Inverts See Sheet 4 of Sanitary Sewer Plans.

For Entrance Drive Details See Sheet 4.

Refer to Existing Conditions, Sheet 5, for information regarding existing utilities.

The Storm Sewer will have watertight joints meeting ASTM C443.

Contractor to coordinate Water Quality Unit selected for this project from the list of approved providers with the engineer prior to purchasing. The cost of evaluating whether or not the unit selected can be installed per the manufacturer's recommendations within the constraints of the storm sewer system as currently designed shall be included in the price bid for Water Quality Unit, 0001, Type 1 and shall be paid directly to the engineer. If plan modifications are necessary, the engineer shall be contacted sufficiently in advance of installation such that appropriate revisions can be made to the plans and necessary approvals can be obtained.

FF = Finished Floor  
 San = Sanitary  
 Stm = Storm  
 DWS = Domestic Water Service

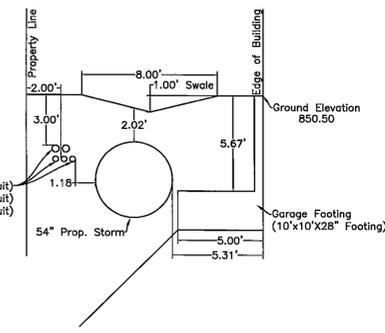
**Benchmarks**

BM #1 Elev.=847.94 (NAVD 88)  
 Chiseled "X" on the southwest corner of the concrete base of a gas power metal light pole, located on the south side of Park Street and the second light west of Broadway (S.R. 3/U.S. 62) on the north side of the sidewalk.

BM #2 Elev.=848.38 (NAVD 88)  
 Chiseled "X" on the northeast corner of the concrete base of a gas powered metal light pole, located on the south side of Park Street at the northwest corner City Hall of Grove City.

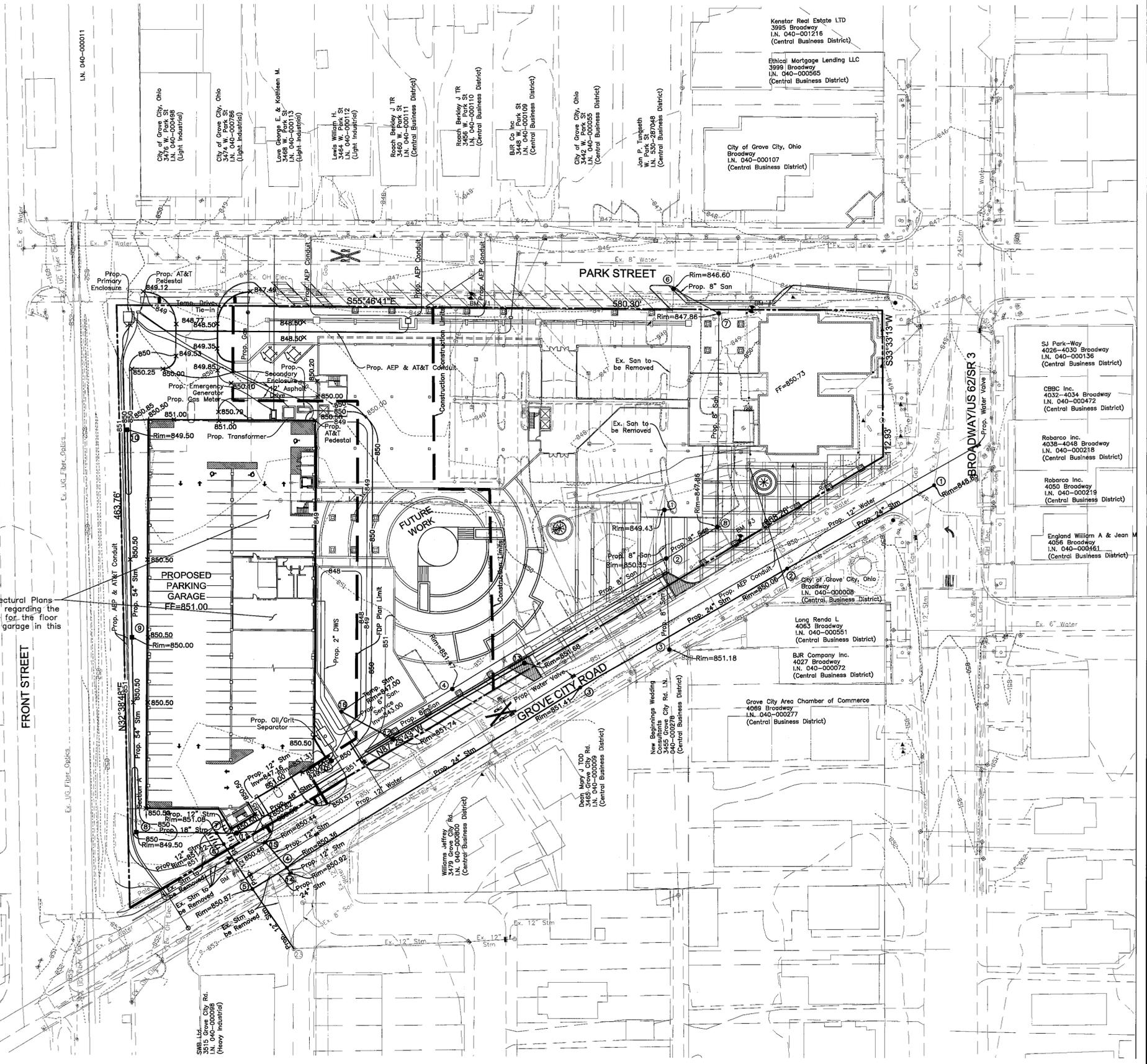
BM #3 Elev.=851.18 (NAVD 88)  
 Chiseled "X" on the southwest corner of the concrete base of a gas powered metal light pole, located on the north side of Grove City Road, the fourth light pole west of Broadway (S.R. 3/U.S. 62).

BM #4 Elev.=853.43 (NAVD 88)  
 Chiseled "X" on the southwest bolt of a fire hydrant on the north side of Grove City Road, located on the second fire hydrant west of Broadway (S.R. 3/U.S. 62), 75 feet east of the railroad tracks.



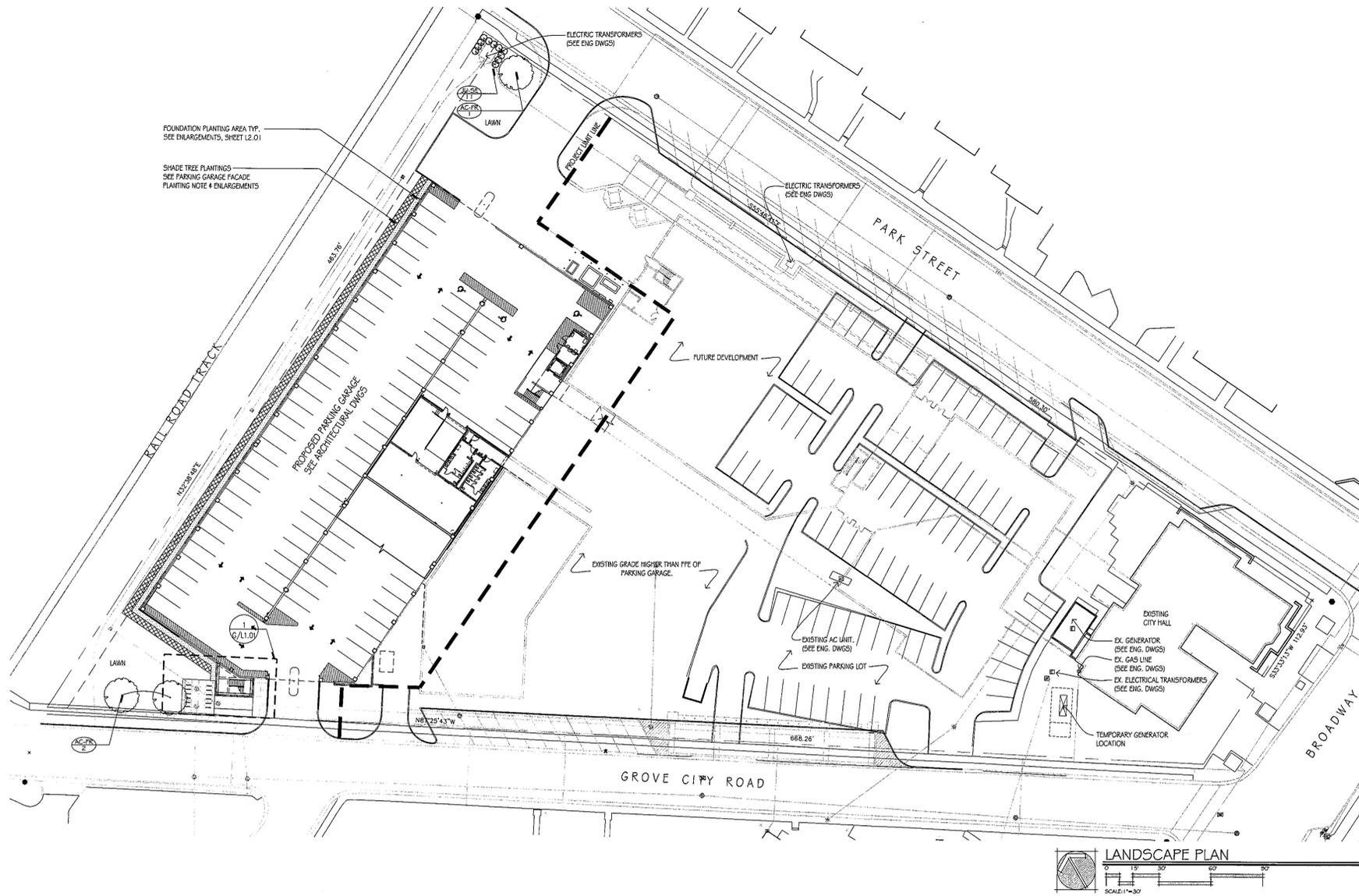
**SECTION A: BETWEEN GARAGE & PROPERTY LINE**  
 10' x 10' Footing  
 Scale: 1" = 5'

Refer to Architectural Plans for information regarding the finished grades for the floor of the parking garage in this area.



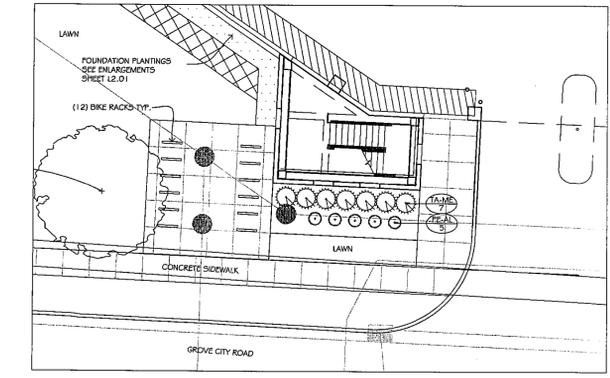
A PROFESSIONAL ENGINEER'S SEAL AND SIGNATURE IS REQUIRED FOR THIS PLAN. THE SEAL AND SIGNATURE OF THE ENGINEER SHALL BE PLACED IN THE LOWER LEFT CORNER OF THIS PLAN. THE SEAL AND SIGNATURE OF THE ENGINEER SHALL BE PLACED IN THE LOWER LEFT CORNER OF THIS PLAN. THE SEAL AND SIGNATURE OF THE ENGINEER SHALL BE PLACED IN THE LOWER LEFT CORNER OF THIS PLAN.

<b>CITY OF GROVE CITY, FRANKLIN COUNTY, OHIO</b> FINAL DEVELOPMENT PLAN FOR <b>LUMBERYARD REDEVELOPMENT - PARKING GARAGE</b> <b>3485 PARK STREET</b> GRADING PLAN	Job No. 2008-2261	Date May 22, 2009	Scale 1" = 40'	Sheet 4												
<b>REVISIONS</b>	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 5%;">MARK</th> <th style="width: 15%;">DATE</th> <th style="width: 80%;">DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>				MARK	DATE	DESCRIPTION									
MARK	DATE	DESCRIPTION														



FOUNDATION PLANTING AREA TYP.  
SEE ENLARGEMENTS, SHEET L2.01

SHADE TREE PLANTINGS  
SEE PARKING GARAGE FACADE  
PLANTING NOTE 4 ENLARGEMENTS



**1 ENLARGEMENT-ENTRY PLANTING SCHEME**  
SCALE: 1"=10'-0"

**GENERAL NOTES**

1. ALL PLANTS SHALL MEET OR EXCEED THE AMERICAN STANDARD FOR NURSERY STOCK AS PUBLISHED BY THE AMERICAN NURSERY AND LANDSCAPE ASSOCIATION.
2. ALL SHRUBS TO BE A MINIMUM OF 3'-0" FROM PVMT. EDGE UNLESS SPECIFICALLY NOTED OTHERWISE.
3. PLANTING BEDS SHALL HAVE A MINIMUM OF 3" DEPT. DOUBLE PROCESSED HARDWOOD BARK MULCH.
4. 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.
5. CONTRACTOR RESPONSIBLE FOR THE COST OF REPAIRS TO EXISTING SITE CONDITIONS WHEN DAMAGED BY CONTRACTOR.
6. EXAMINE FINISHED SURFACE, GRADES, TOPSOIL QUALITY AND DEPTH. DO NOT START WORK UNTIL UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED. VERIFY LIMITS OF WORK BEFORE STARTING.
7. CONTRACTOR SHALL MAINTAIN POSITIVE DRAINAGE IN LAWN AREAS.
8. FINE GRADE LAWN AREAS TO PROVIDE A SMOOTH AND CONTINUAL GRADE FREE OF IRREGULARITIES OR DEPRESSIONS.

**PARKING GARAGE FACADE PLANTING NOTES**

LANDSCAPE PLANTING PLAN TO BE COORDINATED WITH PARKING GARAGE FACADE TREATMENT. (SEE ARCHITECTURAL DRAWINGS). LANDSCAPE DESIGN IS BASED ON PARKING GARAGE ALTERNATES 1, 2, 3, AND 4.

**ALTERNATE #1 (BASE BID):**  
SHADE TREE PLANTINGS SHALL BE LOCATED 20'-0" O.C. AND BE CENTERED BETWEEN PARKING GARAGE COLUMNS.  
SHRUB PLANTINGS SHALL ALTERNATE IN GROUPS OF 5 PLANTS (BETWEEN EACH TREE (PER EVERGREEN AND GRASS IN A LINEAR HEDGE FASHION) SEE ENLARGEMENT ALTERNATE 1.

**ALTERNATE #2:** SHALL INCORPORATE SHADE TREE PLANTINGS, FOUNDATION SHRUB PLANTINGS/GRAVEL BED AND VINE PLANTINGS LOCATED UNDER ALL METAL TRELLIS GRATES.  
SHADE TREE PLANTINGS SHALL BE LOCATED 40'-0" O.C. AND BE CENTERED BETWEEN PARKING GARAGE COLUMNS WHERE METAL TRELLIS GRATES ARE NOT LOCATED.  
SHRUB PLANTINGS SEE ENLARGEMENTS ON SHEET G/L2.01

**ALTERNATE #3:** SHALL INCORPORATE SHADE TREE PLANTINGS, FOUNDATION SHRUB PLANTINGS/GRAVEL BED AND VINE PLANTINGS LOCATED UNDER ALL METAL TRELLIS GRATES.  
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SHRUB PLANTINGS SEE ENLARGEMENTS ON SHEET G/L2.01

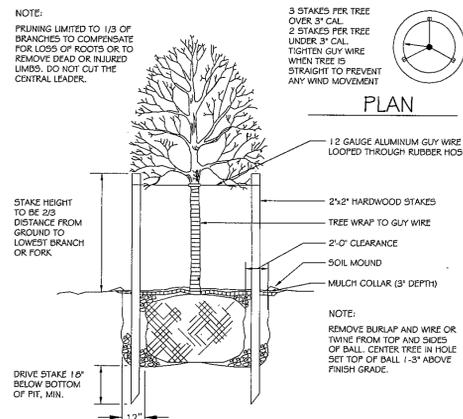
**ALTERNATE #4:** SHALL INCORPORATE SHADE TREE PLANTINGS, FOUNDATION SHRUB PLANTINGS/GRAVEL BED AND VINE PLANTINGS LOCATED UNDER ALL METAL TRELLIS GRATES.  
SHADE TREE PLANTINGS SHALL BE LOCATED AT EACH METAL TRELLIS GRATE. TREES TO BE PLANTED ON THE CENTERLINE OF METAL TRELLIS.  
SHRUB PLANTINGS SEE ENLARGEMENTS ON SHEET G/L2.01

**PRELIMINARY NOT FOR CONSTRUCTION**

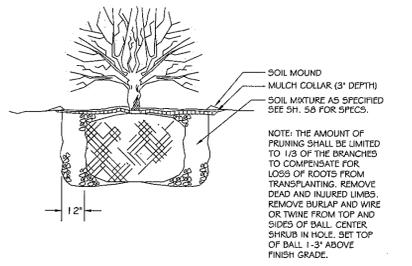
no.	revisions:	by:

**PLANT LIST**

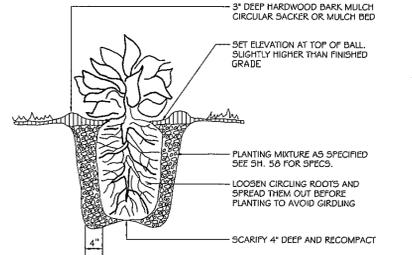
CODE	BOT. NAME/Common Name	SIZE	CONDITION	SPACING	QTY
<b>DECIDUOUS SHADE TREES</b>					
AC-FR	Acer x freemanii 'Armstrong' Armstrong Maple	2" CAL.	B+B	AS SHOWN	3
AC-FR	Ginkgo Biloba 'Princeton Sentry' Princeton Sentry Ginkgo	2" CAL.	B+B	ALT #1	17
				ALT #2	8
				ALT #3	7
				ALT #4	7
<b>SHRUBS</b>					
JU-SE	Juniperus ch. 'Sea Green' Sea Green Juniper	24" HT.	B+B	3' O.C.	11
TA-ME	Taxus x media 'Densifolmis' Dense Yew	24" HT.	B+B	3' O.C.	PER ALT.
<b>GRASSES</b>					
MI-SI	Miscanthus sinensis 'Morning Light' Morning Light Maiden Grass	36" HT.	1 Gal.	18" O.C.	PER ALT.
PE-AL	Pennisetum a. 'Hameln' Dwarf Fountain Grass	12" HT.	1 Gal.	2' O.C.	5
<b>GROUNDCOVER, VINES, BULBS AND SEED</b>					
PA-TR	Parthenocissus tricuspidata Boston Ivy 'Green Showers'	9" HT. STAKED	1 Gal	AS SHOWN	PER ALT.
SEED	Sand/Soil Mix, 65% Sand, 35% Soil TURF (Comtil, High in Organic Matter).	-	Seed	-	-



**1 DECIDUOUS TREE**  
SCALE: N.T.S.



**2 SHRUB**  
SCALE: N.T.S.



**3 ORNAMENTAL GRASS**  
SCALE: N.T.S.

**PARKING GARAGE FACADE PLANTING NOTES**

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SHRUB PLANTINGS SHALL ALTERNATE IN GROUPS OF 5 PLANTS IN BETWEEN EACH TREE (PER EVERGREEN AND GRASS IN A LINEAR HEDGE FASHION) SEE ENLARGEMENT ALTERNATE 1.

**ALTERNATE #2:** SHALL INCORPORATE SHADE TREE PLANTINGS, FOUNDATION SHRUB PLANTINGS/GRAVEL BED AND VINE PLANTINGS LOCATED UNDER ALL METAL TRELLIS GRATES.

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SHRUB PLANTINGS SEE ENLARGEMENTS ON SHEET G/L2.01

**ALTERNATE #3:** SHALL INCORPORATE SHADE TREE PLANTINGS, FOUNDATION SHRUB PLANTINGS/GRAVEL BED AND VINE PLANTINGS LOCATED UNDER ALL METAL TRELLIS GRATES.

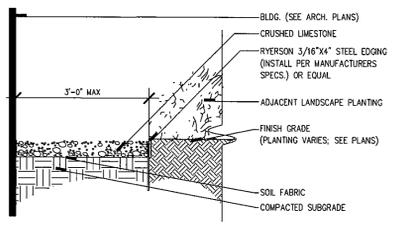
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SHRUB PLANTINGS SEE ENLARGEMENTS ON SHEET G/L2.01

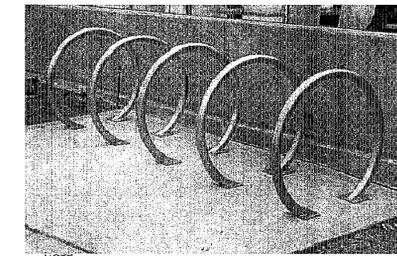
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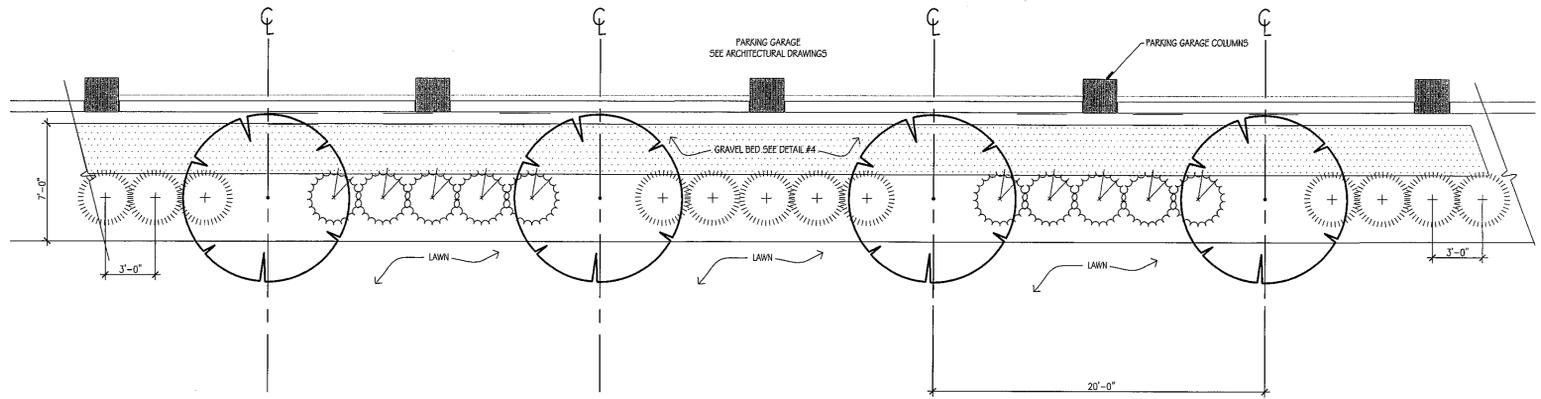
SHRUB PLANTINGS SEE ENLARGEMENTS ON SHEET G/L2.01



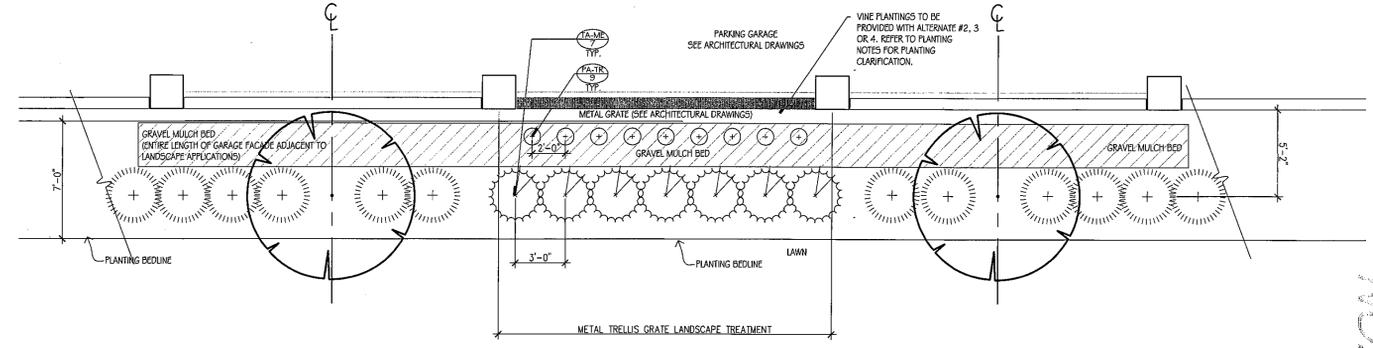
**4 GRAVEL BED EDGE DETAIL**  
SCALE: N.T.S.



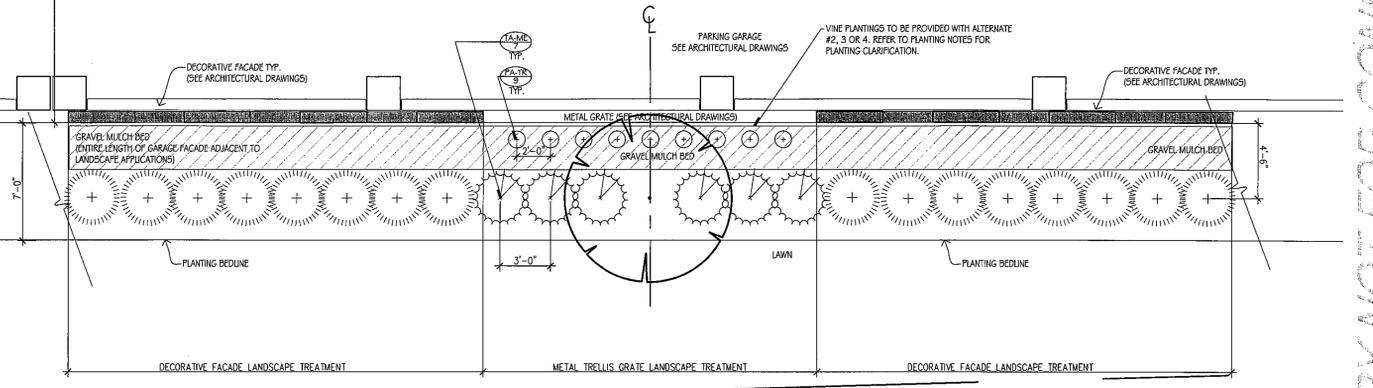
**5 GRAVEL BED EDGE DETAIL**  
SCALE: N.T.S.



**PLANTING PLAN (ALTERNATE 1)**  
SCALE: 1"=4'-0"



**PLANTING PLAN (ALT. 2, 3 ONLY)**  
SCALE: 1"=4'-0"



**ENLARGEMENT: METAL GRATE TREATMENT (ALT. 4 ONLY)**  
SCALE: 1"=4'-0"

**GENERAL NOTES**

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- FINE GRADE LAWN AREAS TO PROVIDE A SMOOTH AND CONTINUAL GRADE FREE OF IRREGULARITIES OR DEPRESSIONS.

**PRELIMINARY NOT FOR CONSTRUCTION**

**CODE INFORMATION**

1. ZONING CLASSIFICATION: F.U.D.

2. TYPE OF WORK (check all that apply):  
 A. New Structure:   
 B. Addition:   
 Fire Wall Where New Structure Meets Existing Yes?  No?   
 Exempt:  (per 4.01(2)-1-1(D))  
 C. Alteration:   
 D. Change of Use:  Entire Structure;  Partial;  
 Previous Use:  Previous Use Group:

3. EXISTING STRUCTURE ANALYSIS: Check here if not applicable   
 A. Discrepancy Description:  Use Group:   
 B. Type of Construction:   

Floor Area/Floor	Occupant Load/Floor	Egress Capacity/Floor	No. of Exits
Basement			
1st			
2nd			
3rd			
4th/above			

 D. Allowable maximum floor area:  Does the above include increases for excess height? Yes?  No?   
 Does the above include increases for total sprinklering? Yes?  No?   
 E. Number of stories above grade:  Total stories:  Height:   
 F. Limited Sprinkler System:  Yes?  No?   
 Full Automatic Sprinkler System:  Yes?  No?   
 Standpipe System:  Yes?  No?   
 Smoke Control/Removal System:  Yes?  No?   
 Limited Area Building:  Yes?  No?   
 G. Manual Fire Alarm:  Yes?  No?   
 Auto Fire Alarm:  Yes?  No?   
 H. Handicap Accessible: Yes?  No?  If No, state exception:

4. NEW STRUCTURE ANALYSIS: Check here if not applicable   
 A. Occupancy Description: OPEN PARKING GARAGE; Use Group: S2  
 B. Mixed Use: No?  Yes?   
 If Yes: Non-separated Use:  Separated Use:  Separate Building:   
 Fire Rating:   
 C. Type of Construction: IIB  
 D. Fire Resistant Construction: Fire Test Design Number:   
 Exterior Walls (Load Bearing):  0 hr @ FUTURE ADJACENT STRUCT.  
 Fire Walls:  2 hr @ FUTURE ADJACENT STRUCT.  
 Floor/Ceiling:  0 hr  
 Roof/Ceiling:  0 hr  
 Column/Bearing Walls:  0 hr  
 Exit Enclosures:  1 & 1 1/2 hr NOT REQ'D @ AUTO RAMP(S)  
 Shafts:  1 & 1 1/2 hr NOT REQ'D @ AUTO RAMP(S)  
 Corridors:  1 hr  
 Tenant Separation:  1 hr  
 E. Floor Area/Floor: Occupant Load/Floor: Egress Capacity/Floor: No. of Exits  

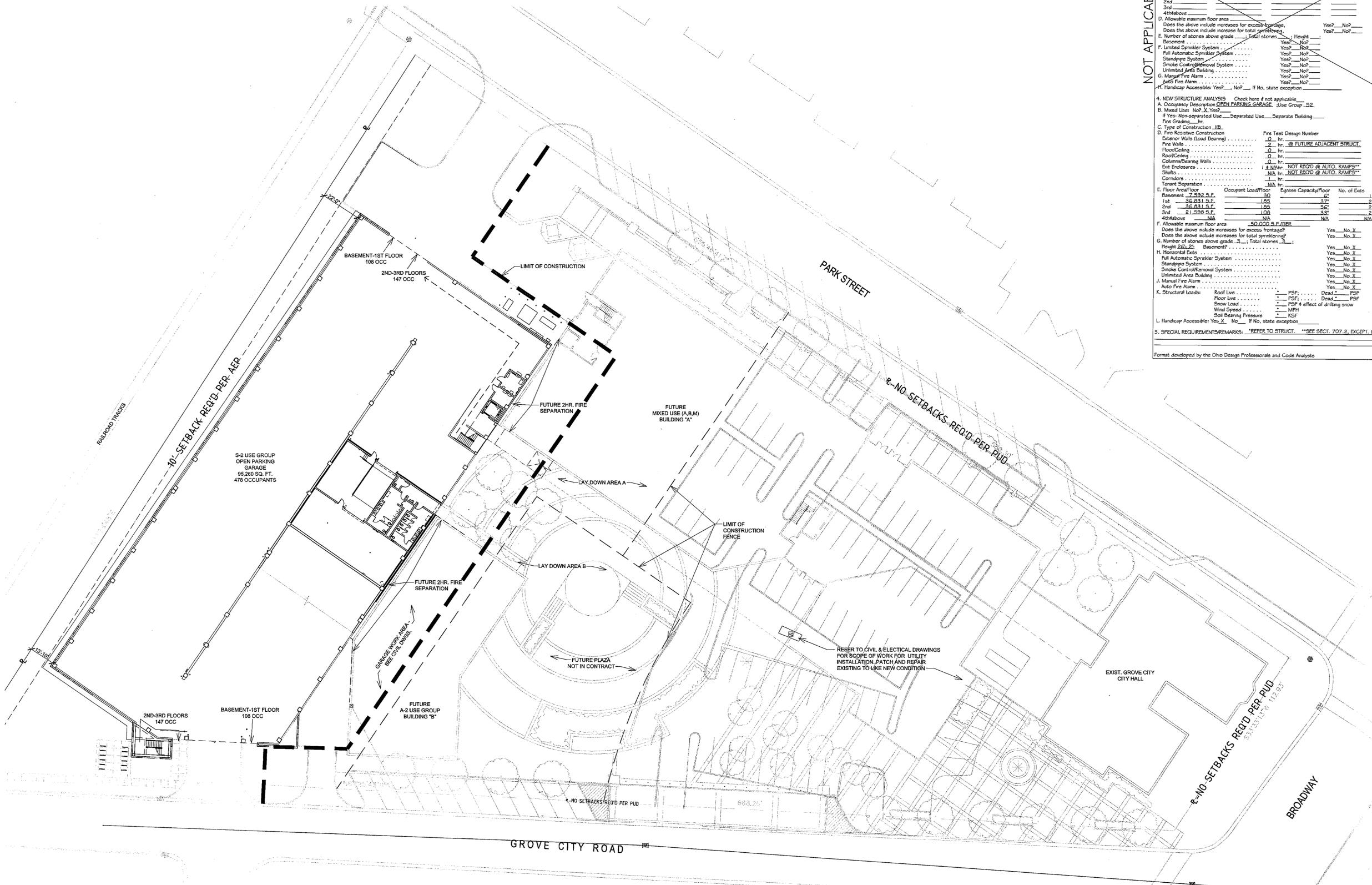
Floor Area/Floor	Occupant Load/Floor	Egress Capacity/Floor	No. of Exits
Basement	2,392 S.F.	30	2
1st	36,831 S.F.	105	37
2nd	36,831 S.F.	105	36
3rd	21,598 S.F.	105	35
4th/above	N/A	N/A	N/A

 F. Allowable maximum floor area: 50,000 S.F. TIER:  Yes?  No?   
 Does the above include increases for excess height? Yes?  No?   
 Does the above include increases for total sprinklering? Yes?  No?   
 G. Number of stories above grade: 3; Total stories: 3;  
 Height: 22.2'; Basement?   
 H. Horizontal Exits:  Yes?  No?   
 Full Automatic Sprinkler System:  Yes?  No?   
 Standpipe System:  Yes?  No?   
 Smoke Control/Removal System:  Yes?  No?   
 Unlimited Area Building:  Yes?  No?   
 J. Manual Fire Alarm:  Yes?  No?   
 Auto Fire Alarm:  Yes?  No?   
 K. Structural Loads: Roof Live:  PSF; Dead:  PSF  
 Floor Live:  PSF; Dead:  PSF  
 Snow Load:  PSF & effect of drifting snow  
 Wind Speed:  MPH  
 Soil Bearing Pressure:  KSF  
 L. Handicap Accessible: Yes?  No?  If No, state exception:

5. SPECIAL REQUIREMENTS/REMARKS: \*REFER TO STRUCT. \*\*SEE SECT. 707.2, EXCEPT, B

Format developed by the Ohio Design Professionals and Code Analysts

NOT APPLICABLE

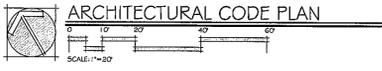


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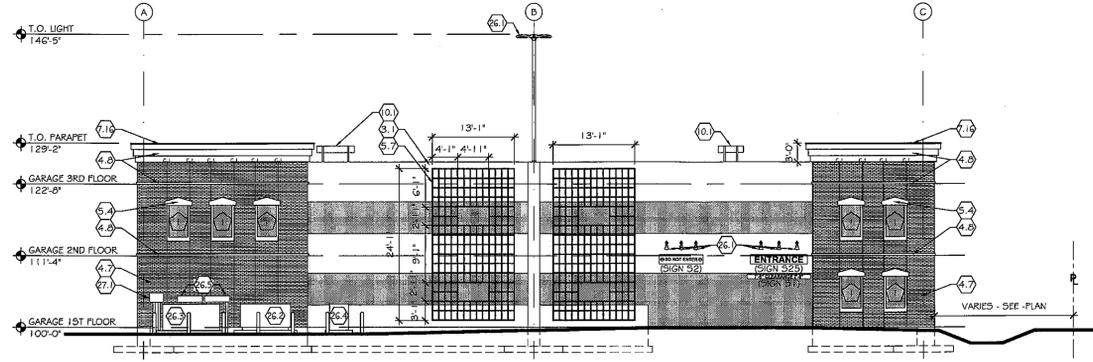
CITY OF GROVE CITY  
 GROVE CITY LUMBERYARD PARKING GARAGE  
 GROVE CITY, OHIO  
 ARCHITECTURAL SITE/CODE PLAN

no.	revisions:	by:

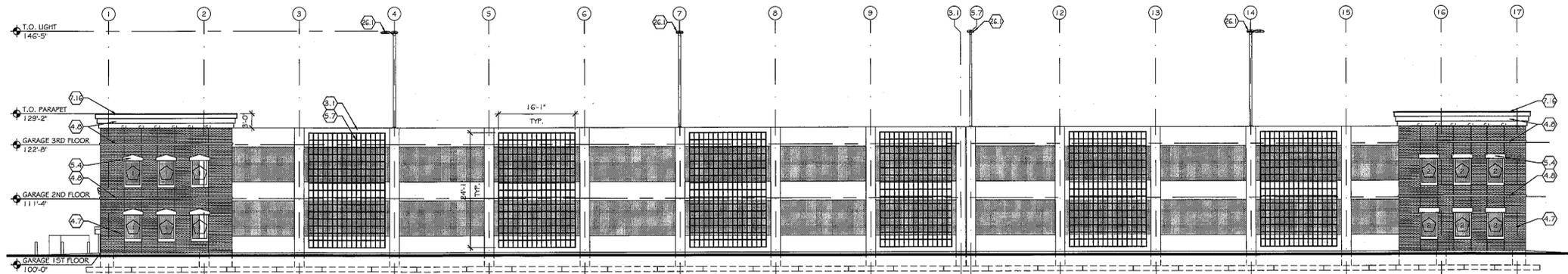
job no: 08001  
 date: 5/22/09  
 sheet: G/K1.01  
 of:



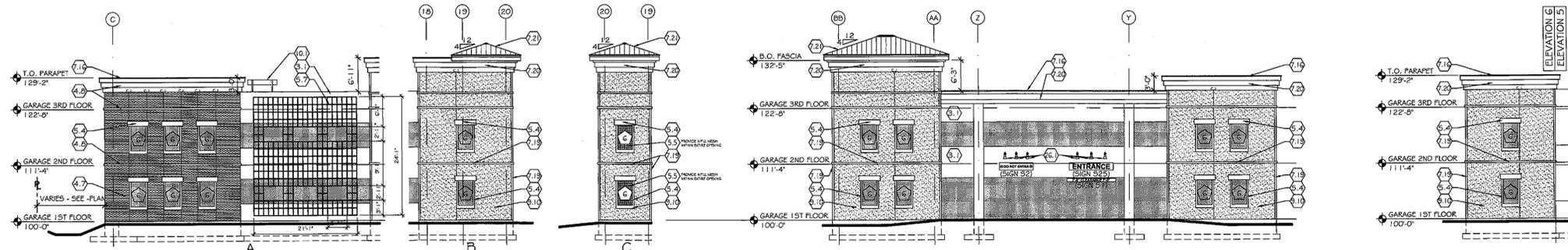
DEVELOPMENT PLAN 05.22.09



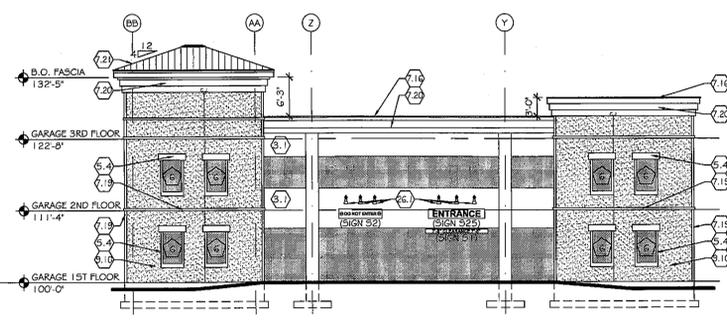
**1 NORTH ELEVATION - ALTERNATE #3**  
SCALE: 3/32"=1'-0"



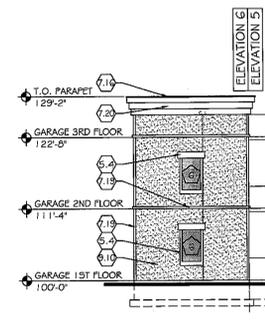
**2 WEST ELEVATION - ALTERNATE #3**  
SCALE: 3/32"=1'-0"



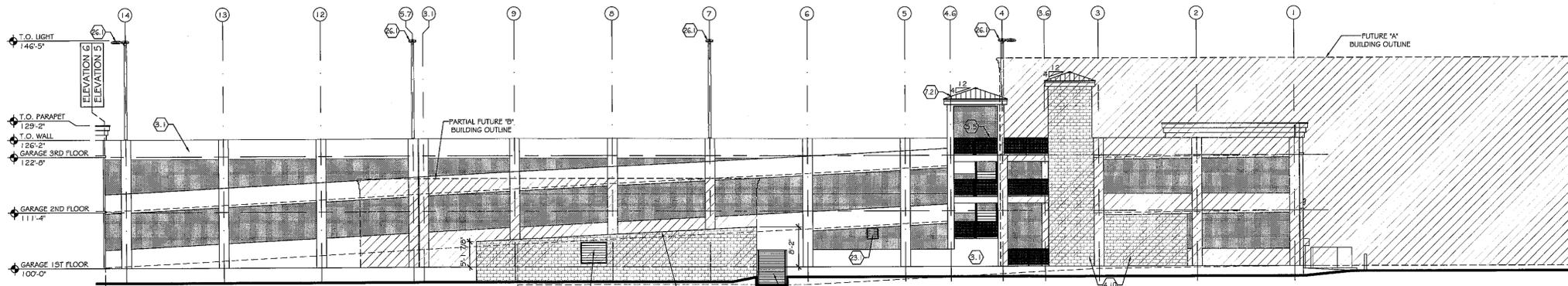
**3 SOUTH ELEVATION - ALTERNATE #3**  
SCALE: 3/32"=1'-0"



**4 SOUTH ELEVATION - ALTERNATE #3**  
SCALE: 3/32"=1'-0"



**6 PARTIAL EAST ELEV. - ALT. #3**  
SCALE: 3/32"=1'-0"



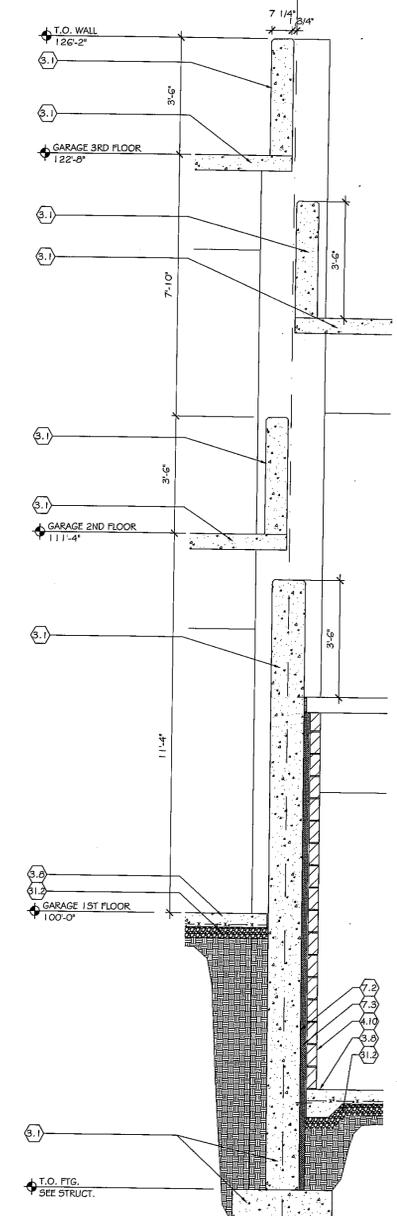
**CODED NOTES**

- DIVISION 02
- 2.1 REMOVE STRUCTURE
- 2.2 REMOVE SITE ITEM
- DIVISION 03
- 3.1 CAST-IN-PLACE CONCRETE - REFER TO STRUCTURAL DWGS
- 3.2 ASPHALT/CONC. PAVING - REFER TO SITE DWGS
- 3.3 FINE GRADED GRANULAR MATERIAL - REFER TO SPEC XXXXX
- 3.4 DRAINAGE FILL
- 3.5 4" AGGREGATE
- 3.6 WELDED WIRE FABRIC - REFER TO STRUCTURAL FOR SIZE & CONFIGURATION
- 3.7 PRECAST CONCRETE PANEL
- 3.8 REINFORCED CONCRETE SLAB-ON-GRADE - REFER TO STRUCTURAL
- 3.9 CONCRETE TOPPING - SEE SPEC 035300, REFER TO STRUCTURAL
- DIVISION 04
- 4.1 CMU FOUNDATION - THICKNESS AS NOTED, SEE SPEC 042000
- 4.2 HORIZONTAL MASONRY REINFORCING - SEE SPEC 042000
- 4.3 VERTICAL MASONRY REINFORCING - REFER TO SPEC 042000, REFER TO STRUCTURAL DWGS
- 4.4 MASONRY GROUT
- 4.5 COMPRESSIBLE FILLER
- 4.6 PREFORMED COMPRESSION SEAL
- 4.7 FACE BRICK - SEE SPEC 042000
- 4.8 CAST STONE - SEE SPEC 047200
- 4.9 CMU INSULATION INSERTS
- 4.10 CMU - THICKNESS AS NOTED - SEE SPEC 042000
- 4.11 MASONRY ANCHOR
- 4.12 L-TYPE STONE ANCHOR
- 4.13 CELLULAR WEEPVENT
- DIVISION 05
- 5.1 METAL DECK - REFER TO STRUCTURAL DWGS
- 5.2 COLD FORMED METAL FRAMING - REFER TO PLAN DWGS FOR WIDTH, REFER TO STRUCTURAL FOR GAUGE AND SPACING
- 5.3 UNITEL - REFER TO STRUCTURAL DWGS
- 5.4 MISC METAL FABRICATION - SEE SPEC 055000
- 5.5 GALV. PIPE RAILING - SIZE AS NOTED
- 5.6 GALV. TUBE STEEL - REFER TO STRUCTURAL DWGS, SEE SPEC 051213
- 5.7 GALV. METAL GRATING - SEE SPEC 055300
- 5.8 STEEL PLATE - REFER TO STRUCTURAL DWGS
- 5.9 STEEL ANGLE - REFER TO STRUCTURAL DWGS
- 5.10 STEEL CLIP ANGLE - REFER TO STRUCTURAL DWGS
- 5.11 STEEL REINFORCEMENT - REFER TO STRUCTURAL DWGS
- DIVISION 06
- 6.1 EXTERIOR GRADE SHEATHING
- 6.2 F.R.T. WOOD BLOCKING
- 6.3 1/2" FIRE TREATED FLYWOOD
- 6.4 M.S.T.W. WOOD BLOCKING
- 6.5 3/4" F.R.T. FLYWOOD
- DIVISION 07
- 7.1 DAMPROOFING - SEE SPEC 071113
- 7.2 WATERPROOFING
- 7.3 2" RIGID INSULATION
- 7.4 FULLY ADHERED EPDM - SEE SPEC 076200
- 7.5 CONSTANT THICKNESS ROOF INSULATION - R-20
- 7.6 TAPERED ROOF INSULATION
- 7.7 SEALANT (WITH BACKER ROD AS REQUIRED) - SEE SPEC 079200
- 7.8 CONTROL JOINT
- 7.9 EXPANSION JOINT ASSEMBLY - SEE SPEC 079500
- 7.10 BACKERSEAL - SEE SPEC XXXXXX
- 7.11 FRESHENING INSULATION - SEE SPEC XXXXXX
- 7.12 1/2" RECOVERY BOARD
- 7.13 NOT USED
- 7.14 THRU-WALL FLASHING - SEE SPEC 076200
- 7.15 15# VAPOR PERMEABLE MOISTURE BARRIER - SEE SPEC 072700
- 7.16 PREFINISHED METAL COPING - SEE SPEC 077100
- 7.17 PREFINISHED METAL FLASHING - SEE SPEC 077100
- 7.18 DRIP EDGE - SEE SPEC 072700
- 7.19 CEMENTITIOUS SIDING AND/OR TRIM - SEE SPEC 074600
- 7.20 EXTERIOR INSULATION FINISHING SYSTEM - SEE SPEC 072419
- 7.21 STANDING SEAM METAL ROOF - SEE SPEC 076100
- 7.22 FLASHING REGLET - SEE SPEC 076200
- 7.23 PREFINISHED ALUMINUM FASCIA WRAP - SEE SPEC 077100
- 7.24 ROBIN PAPER
- DIVISION 08
- 8.1 HOLLOW METAL FRAME/DOOR - SEE SPEC 081113
- 8.2 HOLLOW METAL FRAME ANCHOR
- 8.3 METAL LOUVERS FURNISHED BY HVAC INSTALLER
- 8.4 OVERHEAD COILING DOOR - SEE SPEC 083823
- DIVISION 09
- 9.1 NOT USED
- 9.2 SUSPENDED ACOUSTICAL CEILING TILE SYSTEM - SEE RCP
- 9.3 3/4" METAL FURRING
- 9.4 3/8" GYP BD
- 9.5 FLOOR FINISH - REFER TO FINISH SCHEDULE
- 9.6 REFER TO PARTITION SCHEDULE FOR CONSTRUCTION
- 9.7 CEMENT BOARD
- 9.8 CERAMIC TILE - REFER TO FINISH SCHEDULE
- 9.9 WALL BASE - REFER TO ROOM FINISH SCHEDULE
- 9.10 PORTLAND CEMENT PLASTERING (STUCCO) - SEE SPEC 092400
- DIVISION 10
- 10.1 SIGNAGE - REFER TO SHEET GA6.02, SEE SPEC 101400
- DIVISION 12
- DIVISION 13
- DIVISION 14
- 14.1 HYDRAULIC ELEVATOR - SEE SPEC 142400
- DIVISION 21
- 21.1 FIRE PROTECTION ITEM - REFER TO FIRE PROTECTION DWGS
- DIVISION 22
- 22.1 PERIMETER DRAIN TILE - REFER TO PLUMBING DWGS
- 22.2 UNDER SLAB DRAINAGE SYSTEM - REFER TO PLUMBING DWGS
- DIVISION 23
- 23.1 REFER TO MECHANICAL DWGS
- DIVISION 26
- 26.1 EXTERIOR LIGHTING ITEM - REFER TO ELECTRICAL DWGS
- 26.2 POWER COMPANY TRANSFORMER - REFER TO ELECTRICAL DWGS
- 26.3 SECONDARY ENCLOSURE - REFER TO ELECTRICAL DWGS
- 26.4 NATURAL GAS POWERED GENERATOR - REFER TO ELECTRICAL DWGS
- 26.5 CONDUCTOR TERMINAL - REFER TO ELECTRICAL DWGS
- DIVISION 27
- 27.1 COMMUNICATIONS ITEM - REFER TO ELECTRICAL DWGS
- DIVISION 28
- 27.2 LIFE SAFETY/SECURITY ITEM - REFER TO ELECTRICAL DWGS
- DIVISION 31, 32, 33
- 31.1 BACKFILL MATERIAL
- 31.2 COMPACTED AGGREGATE BASE - REFER TO STRUCTURAL DWGS
- 31.3 APPROXIMATE FINISH GRADE 6" BELOW INTERIOR FLOOR, TYP. EXCEPT AT ENTRIES
- 31.4 REFER TO CIVIL DWGS

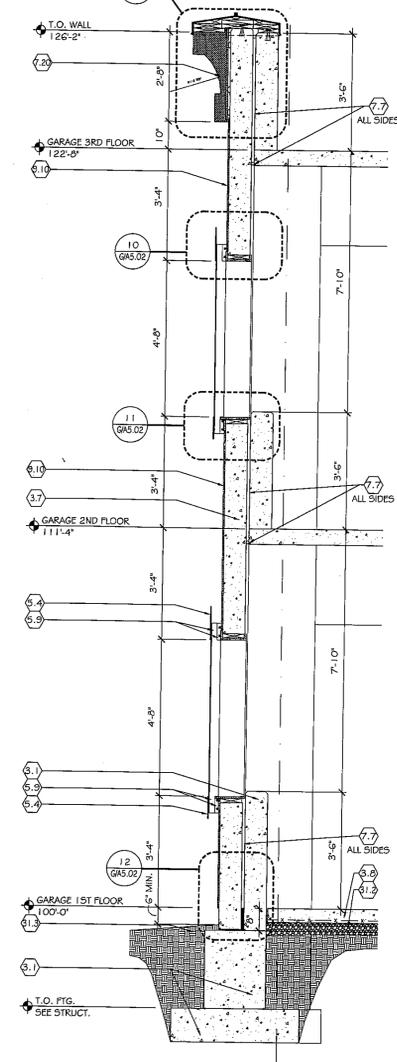
NOTE: SEE STRUCTURAL FOR EXACT C.I.P. CONCRETE CONFIGURATION



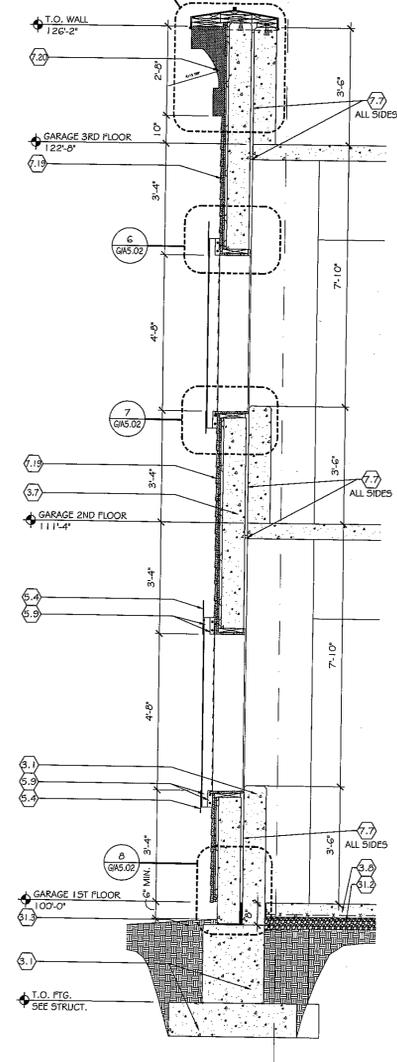
**5 WALL SECTION**  
SCALE: 1/2"=1'-0"



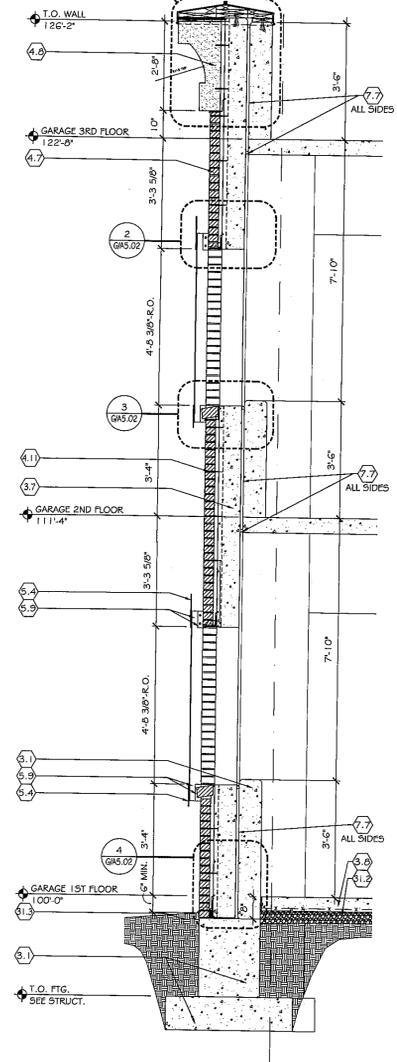
**4 WALL SECTION @ STUCCO FACADE**  
SCALE: 1/2"=1'-0"



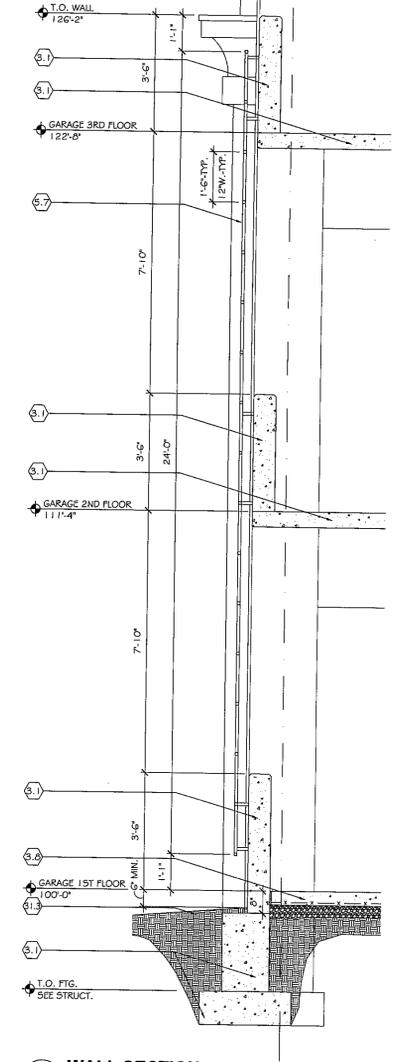
**3 WALL SECTION @ SIDING FACADE**  
SCALE: 1/2"=1'-0"



**2 WALL SECTION @ BRICK FACADE**  
SCALE: 1/2"=1'-0"



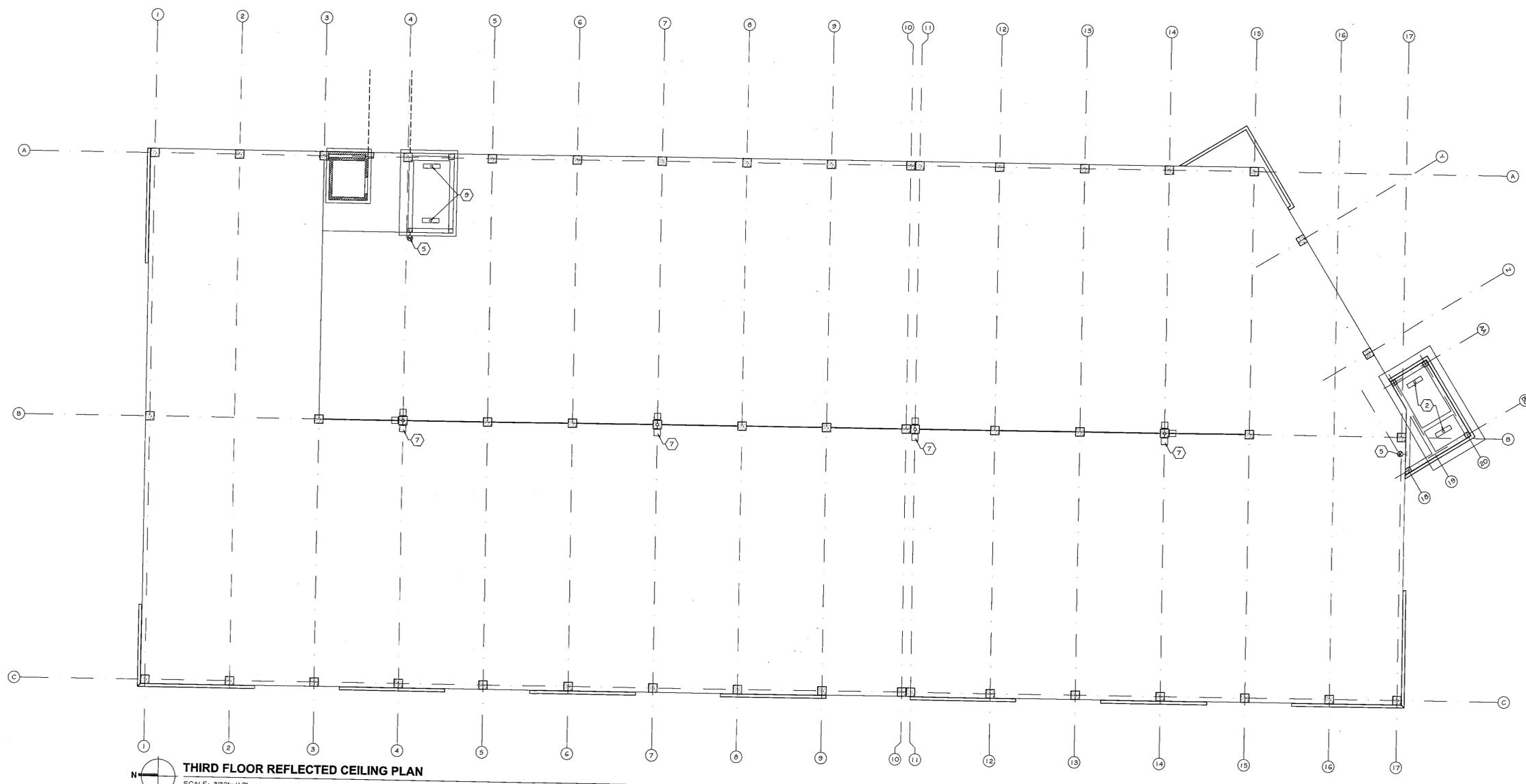
**1 WALL SECTION**  
SCALE: 1/2"=1'-0"



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**THIRD FLOOR REFLECTED CEILING PLAN**  
 SCALE: 3/32" = 1'-0"  
 0 10 20 30'

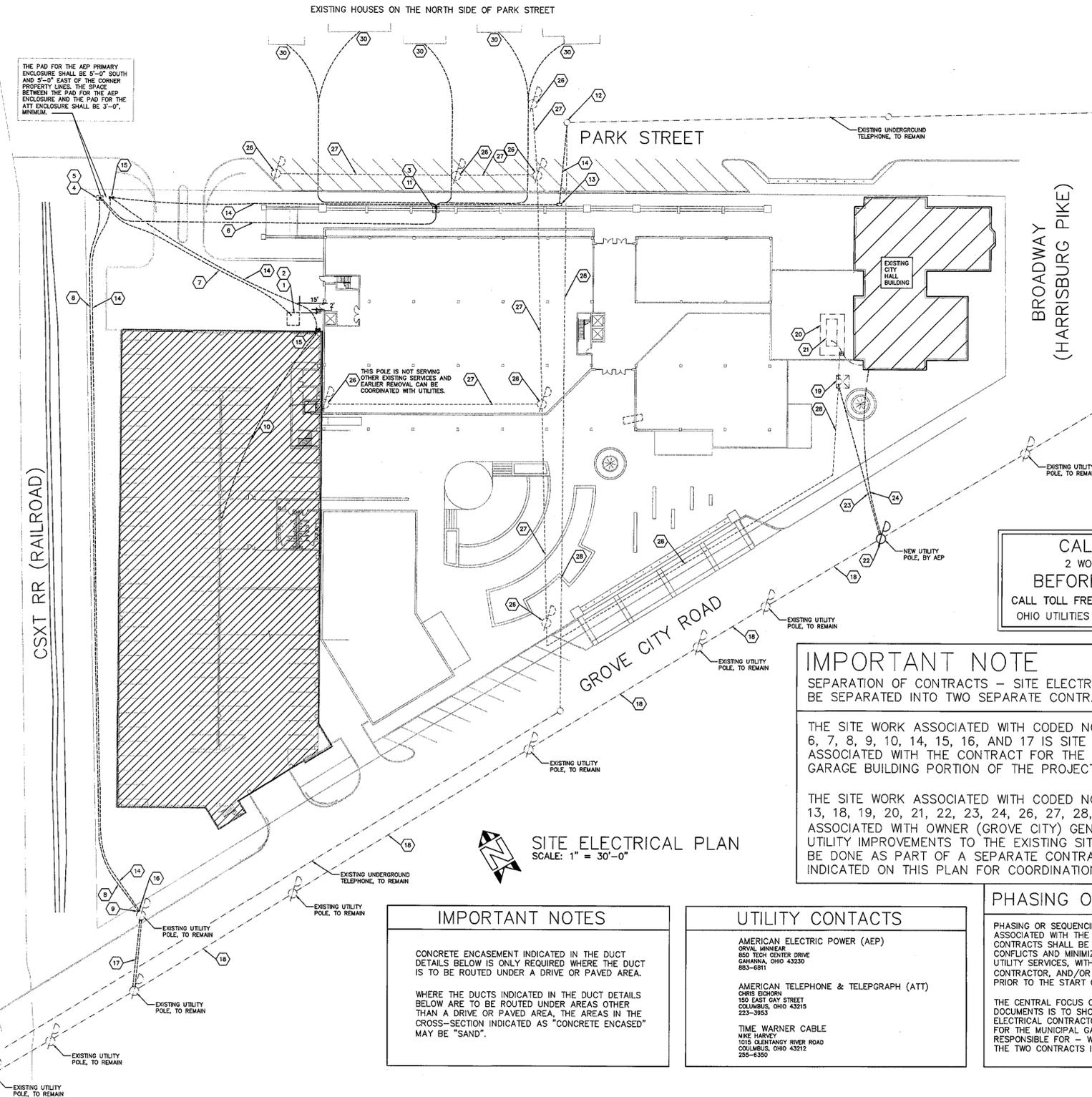
- CODED NOTES**
1. CEILING MOUNTED METAL HALIDE LUMINAIRE - SEE ELECTRICAL DRAWINGS
  2. CEILING MOUNTED FLUORESCENT LUMINAIRE - SEE ELECTRICAL DRAWINGS
  3. WALL MOUNTED FLUORESCENT LUMINAIRE - SEE ELECTRICAL DRAWINGS
  4. WALL MOUNTED GOOSNECK LUMINAIRE - SEE ELECTRICAL DRAWINGS
  5. LED EXIT SIGN - SEE ELECTRICAL DRAWINGS
  6. WALL MOUNTED EGRESS LUMINAIRE - SEE ELECTRICAL DRAWINGS
  7. POLE MOUNTED METAL HALIDE AREA LUMINAIRE
  8. WALL MOUNTED EMERGENCY LUMINAIRE
  9. CEILING HUNG UNIT HEATER - SEE HVAC/ELECT. DRAWINGS
  10. ELECTRIC WATER HEATER - SEE PLUMB/ELECT. DRAWINGS
  11. ELECTRIC HEAT PUMP - SEE HVAC/ELECT. DRAWINGS

PRELIMINARY NOT FOR CONSTRUCTION

CITY OF GROVE CITY  
 GROVE CITY LUMBERYARD PARKING GARAGE  
 GROVE CITY, OHIO  
**THIRD FLOOR REFLECTED CEILING PLAN**  
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no.	revisions:	by:

Job no: 06001  
 date: 5/22/09  
 sheet:



### GENERAL NOTES

- ELECTRICAL SERVICE WORK SHALL INCLUDE WORK REQUIRED TO PROVIDE NEW PRIMARY UNDERGROUND ROUTED AROUND THE WEST SIDE OF THE SITE (ADJACENT TO THE EXISTING RAILROAD RIGHT-OF-WAY, REQUIRED TO REPLACE THE EXISTING OVERHEAD AEP PRIMARY LINES CROSSING THE MIDDLE OF THE SITE THAT IS BEING REMOVED).
- ELECTRICAL SERVICE WORK SHALL ALSO INCLUDE WORK REQUIRED TO PROVIDE NEW PRIMARY UNDERGROUND ROUTED FROM AN AEP PRIMARY ENCLOSURE TO AN AEP PAD MOUNTED TRANSFORMER ADJACENT TO THE NEW GARAGE BUILDING - WITH PROVISIONS FOR EXTENDING POWER REQUIRED BY THE NEXT PHASE OF THE OVERALL PROJECT.
- ELECTRICAL SERVICE WORK SHALL ALSO INCLUDE WORK REQUIRED TO PROVIDE NEW PRIMARY UNDERGROUND, FROM AN AEP PRIMARY ENCLOSURE TO AN AEP PAD MOUNTED TRANSFORMER (ROUTED ALONG THE SOUTH SIDE OF PARK STREET), TO MAINTAIN SERVICE TO EXISTING AEP CUSTOMERS FED FROM THE EXISTING OVERHEAD AEP LINES INDICATED AS BEING REMOVED IN NOTE "A" ABOVE.
- TELEPHONE AND CATV SERVICE WORK SHALL INCLUDE WORK REQUIRED TO PROVIDE AN UNDERGROUND SERVICE ENTRANCE DUCT FROM THE EXISTING COMMUNICATIONS MANHOLE ON PARK STREET TO NEW BUILDING BACKBOARD IN THE NEW GARAGE BUILDING. REFER TO ELECTRICAL SHEET E1.1 FOR PLAN LOCATION OF THE SERVICE ENTRANCE BACKBOARD. FIELD VERIFY TELEPHONE AND CATV SERVICE LOCATIONS WITH THE LOCAL TELEPHONE AND CATV COMPANIES PRIOR TO THE START OF THE WORK.
- TELEPHONE AND CATV SERVICE WORK SHALL ALSO INCLUDE WORK REQUIRED TO RE-ROUTE EXISTING UNDERGROUND COMMUNICATIONS DUCT CROSSING THE MIDDLE OF THE SITE TO BE ROUTED AROUND THE WEST SIDE OF THE SITE SIMILAR TO THE ELECTRICAL PRIMARY INDICATED IN NOTE "A" ABOVE. PROVIDE NEW UNDERGROUND SERVICE DUCT REQUIRED; FIELD VERIFY TELEPHONE AND CATV SERVICE LOCATIONS WITH THE LOCAL TELEPHONE AND CATV COMPANIES PRIOR TO THE START OF THE WORK.
- THE EXTENT OF THE NEW EXTERIOR LIGHTING WORK ASSOCIATED WITH THIS NEW GARAGE PROJECT SHALL BE LIMITED TO NEW BUILDING LIGHTING INDICATED ON ELECTRICAL SHEETS E1.1 AND E1.3. ALL NEW EXTERIOR BUILDING LIGHTING CIRCUITRY SHALL BE CONTROLLED BY A BUILDING LIGHTING CONTROL PANEL OR A LIGHTING CONTACTOR AS INDICATED ON THE DRAWINGS.

### SITE UTILITY NOTES

- PRIOR TO START OF WORK, THIS CONTRACTOR SHALL CONTACT THE LOCAL UNDERGROUND AND INFORMATION SERVICES TO ARRANGE FOR CONTRADICTION OF UNDERGROUND ELEMENTS (WHETHER INDICATED ON PLANS OR NOT).
- NOTE THAT INFORMATION PROVIDED REGARDING EXISTING ITEMS/ELEMENTS IS FROM FIELD OBSERVATION AND EXISTING DOCUMENTATION AVAILABLE FOR THE AREAS INDICATED. ACTUAL CONDITIONS, SIZES, LOCATIONS, ETC. TO BE FIELD VERIFIED BY THIS CONTRACTOR IN ADVANCE OF WORK.
- COORDINATE INSTALLATION OF ALL ITEMS/WORK WITH SITE CONDITIONS (NEW AND EXISTING) AND WORK OF OTHER TRADES, BOTH BELOW AND AT GRADE. EXISTING SITE CONDITIONS TO BE CONFIRMED IN THE FIELD (WHETHER INDICATED ON PLANS OR NOT).
- ELECTRICAL WORK SHALL BE DONE IN STRICT ACCORDANCE WITH THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE, ALL APPLICABLE STATE AND LOCAL CODES. UTILITY WORK, INCLUDING BUT NOT LIMITED TO; PADS, CONDUITS FOR UTILITY CABLES, CONNECTIONS TO THE UTILITY MAINS, AND ANY MISCELLANEOUS UTILITY RELATED APPOINTMENTS - SHALL BE DONE ACCORDING TO UTILITY COMPANY GUIDELINES / RECOMMENDATIONS.
- ALL NEW AND/OR EXISTING GRADE/ELEVATIONS RELATIVE TO MINIMUM COVER REQUIREMENTS FOR UNDERGROUND ITEMS/ELEMENTS INSTALLATION TO BE CONFIRMED IN FIELD AND/OR WITH SITE IMPROVEMENTS/MODIFICATIONS DOCUMENTATION IN ADVANCE OF WORK, AND INSTALLATION COORDINATED AS REQUIRED.
- EXCAVATION AND ALL OTHER WORK ASSOCIATED WITH THIS PROJECT TO BE DONE IN SUCH A MANNER AS TO MINIMIZE POTENTIAL FOR DAMAGE TO EXISTING UNDERGROUND UTILITIES, STRUCTURES, AND OTHER ELEMENTS WITHIN AND ADJACENT TO THE CONSTRUCTION LIMITS, WHETHER INDICATED ON DRAWINGS OR NOT. DAMAGE TO ELEMENTS AS A RESULT OF WORK IN THIS CONTRACT SHALL BE REPAIRED TO THE OWNER'S AND/OR UTILITY AUTHORITY'S SATISFACTION, AT THIS CONTRACTOR'S EXPENSE.

### CODED NOTES

- ELECTRICAL CONTRACTOR (E.C.) SHALL PROVIDE A 6"x6" REINFORCED CONCRETE TRANSFORMER PAD PER AEP REQUIREMENTS. COORDINATE EXACT LOCATION WITH ARCHITECT AND AEP. PRIOR TO THE START OF THE WORK, PROVIDE 5" IRC BOLLARDS FILLED WITH CONCRETE, FURNISH AND INSTALL 18" CONDUIT BETWEEN EACH BOLLARD FOR PROTECTION OF TRANSFORMER DURING SITE / BUILDING DEVELOPMENT, AND CONSTRUCTION.
- NEW POWER COMPANY PAD-MOUNTED TRANSFORMER (BY AEP) LOCATION.
- AEP TO PROVIDE SYNTHETIC PAD FOR THIS NEW POWER COMPANY PAD-MOUNTED TRANSFORMER LOCATION.
- NEW POWER COMPANY PRIMARY ENCLOSURE (BY AEP) LOCATION.
- AEP TO PROVIDE SYNTHETIC PAD FOR THIS NEW POWER COMPANY PRIMARY ENCLOSURE LOCATION.
- E.C. SHALL PROVIDE (2) 3" SCHEDULE 40 PVC CONDUITS AT 36" BFG FOR POWER COMPANY PRIMARY VOLTAGE CABLES BETWEEN THE AEP PRIMARY ENCLOSURE AND AN AEP PAD-MOUNTED TRANSFORMER. STUB UP, TEMPORARILY CAP, AND IDENTIFY AT BOTH ENDS. COORDINATE FINAL TERMINATION POINTS WITH AEP - SIMILAR TO DETAIL B/E0.1.
- E.C. SHALL PROVIDE (2) 5" SCHEDULE 40 PVC CONDUITS AT 36" BFG FOR POWER COMPANY PRIMARY VOLTAGE CABLES BETWEEN THE AEP PRIMARY ENCLOSURE AND AN AEP PAD-MOUNTED TRANSFORMER. STUB UP, TEMPORARILY CAP, AND IDENTIFY AT BOTH ENDS. COORDINATE FINAL TERMINATION POINTS WITH AEP - SIMILAR TO DETAIL B/E0.1.
- E.C. SHALL PROVIDE (2) 5" SCHEDULE 40 PVC CONDUITS AT 36" BFG FOR POWER COMPANY PRIMARY VOLTAGE CABLES BETWEEN THE AEP PRIMARY ENCLOSURE AND AN AEP UTILITY POLE. STUB UP, TEMPORARILY CAP, AND IDENTIFY AT THE ENCLOSURE END. COORDINATE FINAL TERMINATION POINTS WITH AEP - SIMILAR TO DETAIL B/E0.1.
- AT THE AEP UTILITY POLE, THE E.C. SHALL PROVIDE (2) 5" SCHEDULE 40 PVC CONDUITS AT 36" BFG. SHALL TRANSITION TO RIGID CONDUIT, ELBOW OUT OF THE GROUND AND EXTEND 21'-0" AFD - FOR ROUTING OF POWER COMPANY PRIMARY VOLTAGE CABLES. COORDINATE FINAL TERMINATION POINTS WITH AEP.
- E.C. SHALL PROVIDE (2) 4" SCHEDULE 40 PVC CONDUITS AT 36" BFG FOR TELEPHONE COMPANY CABLES BETWEEN THE TELEPHONE COMPANY MANHOLE OR ENCLOSURE AND THE BUILDING SERVICE BACKBOARD. STUB UP, TEMPORARILY CAP, AND IDENTIFY AT THE BUILDING SERVICE BACKBOARD. COORDINATE FINAL TERMINATION POINTS WITH THE TELEPHONE COMPANY. NO EXCAVATION IS REQUIRED FOR CONDUITS ROUTED UNDER THE BUILDING.
- NEW POWER COMPANY PAD-MOUNTED TRANSFORMER LOCATION - SERVING OFF-SITE RESIDENTIAL LOADS, BY AEP.
- EXISTING TELEPHONE MANHOLE / PULLBOX - TO REMAIN.
- E.C. SHALL PROVIDE A NEW FLUSH WITH GRADE - 17"-INCH x 30"-INCH SERVICE PULL BOX (QUADZITE, OR AN APPROVED EQUAL).
- E.C. SHALL PROVIDE (3) 4" SCHEDULE 40 PVC CONDUITS AT 28" BFG, TWO FOR TELEPHONE COMPANY CABLES BETWEEN THE TELEPHONE MANHOLE, PULL BOXES, ENCLOSURES, OR PEDESTALS, CONNECT TO OR STUB UP, AND IDENTIFY AT BOTH ENDS. COORDINATE FINAL TERMINATION POINTS WITH ATT - SIMILAR TO DETAIL D/E0.1.
- NEW ABOVE GRADE PEDESTAL / ENCLOSURE (18"-INCH DIAMETER x 36"-INCH HIGH) PROVIDED BY ATT. COORDINATE SEPARATION OF RESPONSIBILITY PRIOR TO SUBMITTING A BID FOR THE WORK AND COORDINATE THE FINAL TERMINATION POINTS, WITH ATT.
- AT THE AEP UTILITY POLE, THE E.C. SHALL PROVIDE (3) 4" SCHEDULE 40 PVC CONDUITS, AT 28" BFG, SHALL TRANSITION TO RIGID CONDUIT, ELBOW OUT OF THE GROUND AND EXTEND 15'-0" AFD - UP THE POLE - TWO FOR ROUTING OF TELEPHONE COMPANY CABLES. COORDINATE FINAL TERMINATION POINTS WITH ATT.
- NEW AERIAL (OVERHEAD) AEP PRIMARY CABLE BY AEP, AND NEW AERIAL (OVERHEAD) ATT CABLES BY ATT.
- EXISTING AERIAL (OVERHEAD) AEP PRIMARY CABLE, AND NEW AERIAL (OVERHEAD) ATT CABLES, BY ATT.
- EXISTING POWER COMPANY 150 KVA PAD-MOUNTED TRANSFORMER LOCATION - SERVING THE EXISTING CITY HALL BUILDING - TO REMAIN.
- EXISTING AREA WELL - FOR THE EXISTING CITY HALL EMERGENCY GENERATOR.
- EXISTING CITY HALL 625 KVA EMERGENCY GENERATOR LOCATION - BACKING UP / SERVING THE EXISTING CITY HALL BUILDING - TO REMAIN.
- NEW UTILITY POLE - BY AEP.
- E.C. SHALL PROVIDE (2) 5" SCHEDULE 40 PVC CONDUITS FROM THE AEP UTILITY POLE (21'-0" AFD), DOWN THE POLE AND UNDERGROUND, AT 36" BFG, TO THE EXISTING AEP PAD MOUNTED TRANSFORMER, FOR POWER COMPANY PRIMARY VOLTAGE CABLES. COORDINATE FINAL TERMINATION POINTS WITH AEP - SIMILAR TO DETAIL B/E0.1.
- E.C. SHALL PROVIDE (2) 4" SCHEDULE 40 PVC CONDUITS FROM THE AEP UTILITY POLE (15'-0" AFD), DOWN THE POLE AND UNDERGROUND, AT 28" BFG, TO THE EXISTING CITY HALL BUILDING, FOR TELEPHONE COMPANY CABLES. COORDINATE FINAL TERMINATION POINTS WITH THE TELEPHONE COMPANY - SIMILAR TO DETAIL D/E0.1.
- OMITTED.
- EXISTING UTILITY POLE TO BE REMOVED - AFTER - THE NEW ELECTRIC (AEP), TELEPHONE (ATT), AND CATV (TIME WARNER) UTILITIES ARE ROUTED AROUND THE WEST SIDE OF THE SITE ARE INSTALLED AND FUNCTIONAL - TO MAINTAIN EXISTING SERVICES.
- EXISTING AERIAL (OVERHEAD), ELECTRIC (AEP), TELEPHONE (ATT), AND CATV (TIME WARNER) UTILITY LINES TO BE REMOVED - AFTER - THE NEW ELECTRIC, TELEPHONE, AND CATV UTILITIES ARE ROUTED AROUND THE WEST SIDE OF THE SITE ARE INSTALLED AND FUNCTIONAL - TO MAINTAIN EXISTING SERVICES.
- EXISTING UNDERGROUND, ELECTRIC (AEP), AND TELEPHONE (ATT) UTILITY LINES TO BE REMOVED - AFTER - THE NEW ELECTRIC AND TELEPHONE UTILITIES ROUTED OVERHEAD OR UNDERGROUND TO REPLACE THESE LINES ARE INSTALLED AND FUNCTIONAL - TO MAINTAIN EXISTING SERVICES.
- OMITTED.
- COORDINATE THE EXTENSION OF THE NEW UNDERGROUND ELECTRIC SERVICES TO THE EXISTING HOUSES AND ASSURE THAT THEY ARE INSTALLED AND FUNCTIONAL - TO MAINTAIN EXISTING SERVICES.

**CALL OUPS**  
2 WORKING DAYS  
**BEFORE YOU DIG**  
CALL TOLL FREE - 800-362-2764  
OHIO UTILITIES PROTECTION SERVICE

**IMPORTANT NOTE**  
SEPARATION OF CONTRACTS - SITE ELECTRICAL WORK SHALL BE SEPARATED INTO TWO SEPARATE CONTRACTS.

THE SITE WORK ASSOCIATED WITH CODED NOTES; 1, 2, 4, 5, 6, 7, 8, 9, 10, 14, 15, 16, AND 17 IS SITE ELECTRICAL WORK ASSOCIATED WITH THE CONTRACT FOR THE MUNICIPAL GARAGE BUILDING PORTION OF THE PROJECT.

THE SITE WORK ASSOCIATED WITH CODED NOTES; 3, 11, 12, 13, 18, 19, 20, 21, 22, 23, 24, 26, 27, 28, AND 30 IS ASSOCIATED WITH OWNER (GROVE CITY) GENERAL SITE UTILITY IMPROVEMENTS TO THE EXISTING SITE - AND SHALL BE DONE AS PART OF A SEPARATE CONTRACT, AND IS INDICATED ON THIS PLAN FOR COORDINATION ONLY.

**PHASING OF THE WORK**

PHASING OR SEQUENCING OF THE WORK THAT IS ASSOCIATED WITH THE TWO SITE ELECTRICAL CONTRACTS SHALL BE COORDINATED, TO AVOID CONFLICTS AND MINIMIZE ANY INTERRUPTION OF UTILITY SERVICES, WITH THE; OWNER, GENERAL CONTRACTOR, AND/OR CONSTRUCTION MANAGER, PRIOR TO THE START OF THE WORK.

THE CENTRAL FOCUS OF THESE CONTRACT DOCUMENTS IS TO SHOW THE WORK THAT THE ELECTRICAL CONTRACTOR BIDDING THE WORK FOR THE MUNICIPAL GARAGE CONSTRUCTION IS RESPONSIBLE FOR - WHICH IS THE FIRST OF THE TWO CONTRACTS INDICATED ABOVE.

**IMPORTANT NOTES**

CONCRETE ENCASMENT INDICATED IN THE DUCT DETAILS BELOW IS ONLY REQUIRED WHERE THE DUCT IS TO BE ROUTED UNDER A DRIVE OR PAVED AREA.

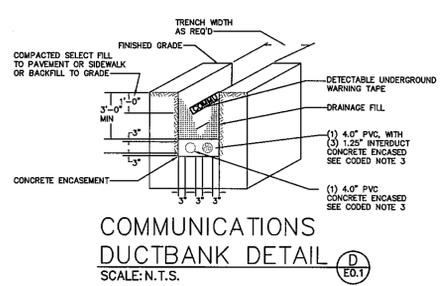
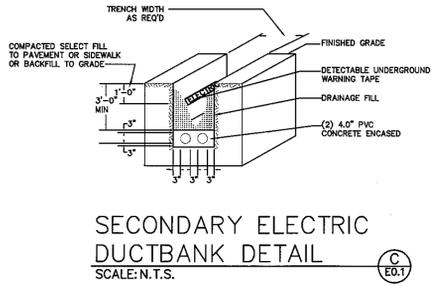
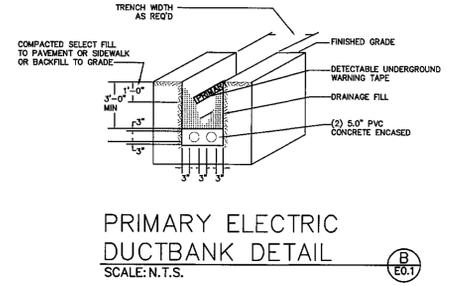
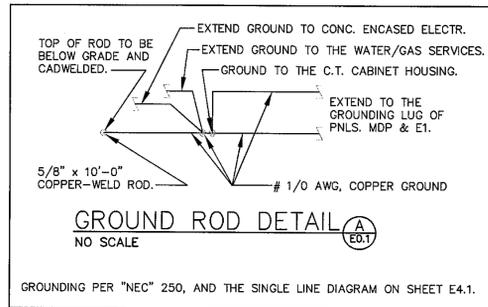
WHERE THE DUCTS INDICATED IN THE DUCT DETAILS BELOW ARE TO BE ROUTED UNDER AREAS OTHER THAN A DRIVE OR PAVED AREA, THE AREAS IN THE CROSS-SECTION INDICATED AS "CONCRETE ENCASED" MAY BE "SAND".

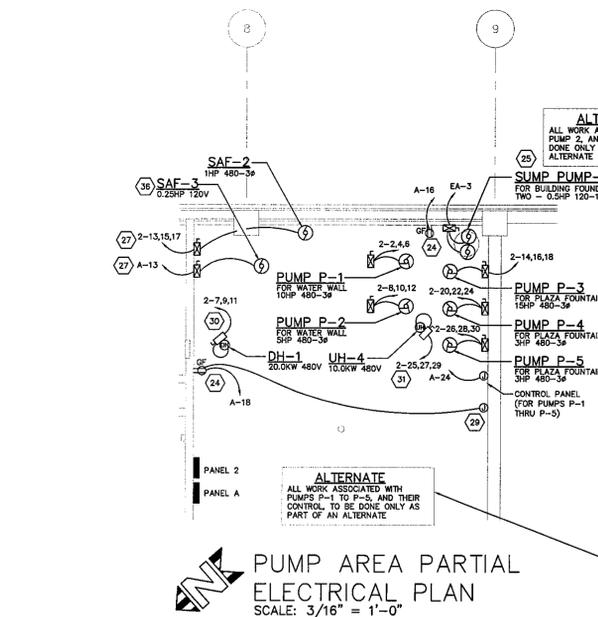
**UTILITY CONTACTS**

**AMERICAN ELECTRIC POWER (AEP)**  
ORVAL WINHEAR  
850 TECH CENTER DRIVE  
GAHANNA, OHIO 43230  
983-6811

**AMERICAN TELEPHONE & TELEGRAPH (ATT)**  
CHRIS SCHORN  
150 EAST GAY STREET  
COLUMBUS, OHIO 43215  
223-3953

**TIME WARNER CABLE**  
MIKE HARVEY  
1015 OLDFATHERY RIVER ROAD  
COLUMBUS, OHIO 43212  
255-6350





**PUMP AREA PARTIAL ELECTRICAL PLAN**  
SCALE: 3/16" = 1'-0"

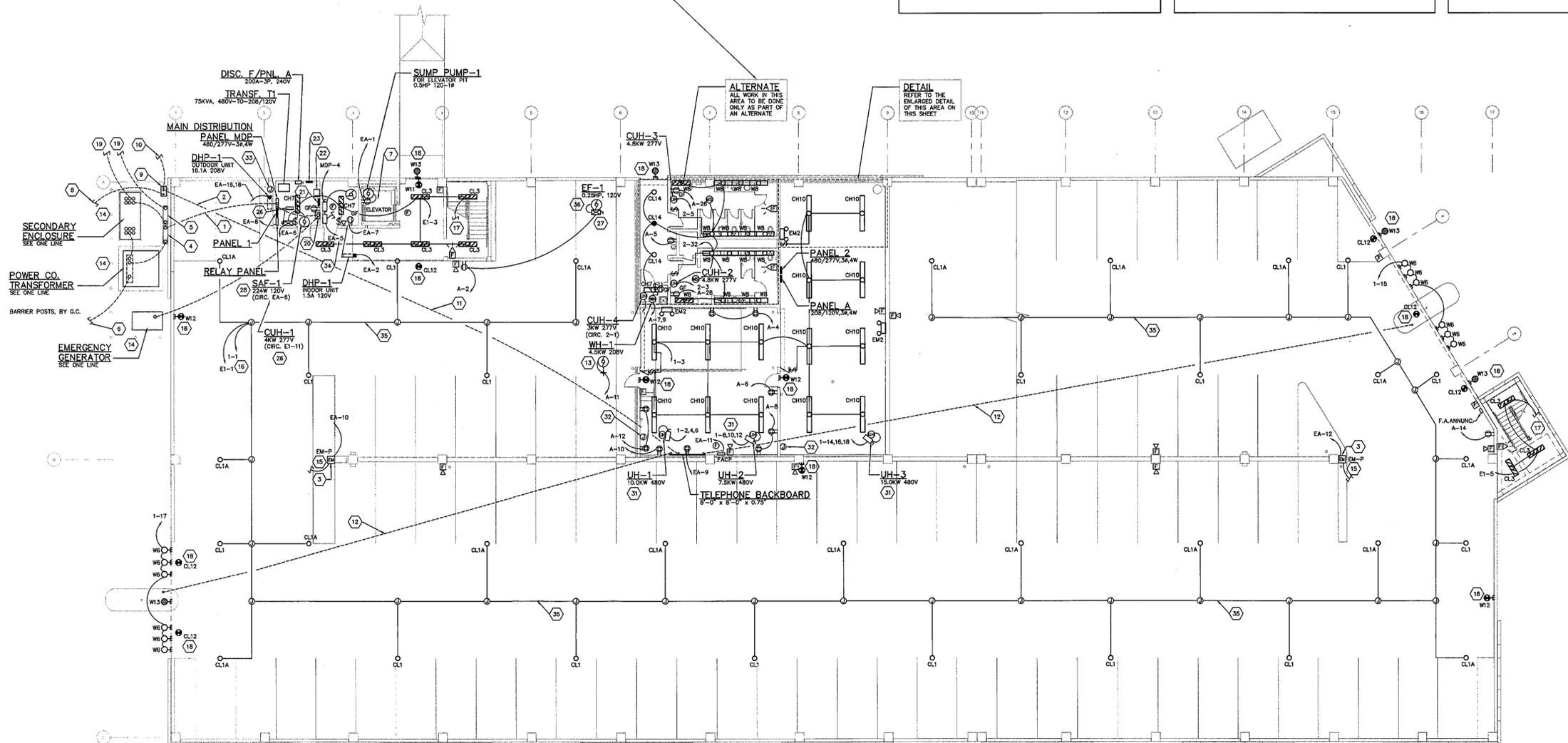
**IMPORTANT**  
PRICING INDICATING THE COSTS FOR ALL OF THE ALTERNATES SHALL BE CLEARLY INDICATED IN THE ELEC. CONTRACTOR'S BID FOR THE WORK.

- CODING NOTES** CONTINUED
- 33. WIRE POWER TO MOTORIZED DAMPER - CONTROL SHALL BE WIRED TO THE STARTER FOR SAF-1, FOR INTERLOCKING CONTROL. THE ELECTRICAL CONTRACTOR SHALL MAKE ALL FINAL POWER CONNECTIONS - FIELD COORDINATE LOCATION, PRIOR TO ROUGH-IN.
  - 34. CIRCUITRY AND DISCONNECT FOR THE ELEVATOR "CAM" POWER. THE ELECTRICAL CONTRACTOR SHALL MAKE ALL FINAL POWER CONNECTIONS - FIELD COORDINATE LOCATION, PRIOR TO ROUGH-IN.
  - 35. CONDUIT INDICATED AS BEING ROUTED DOWN THE CENTER OF THE DRIVE ISLE SHALL BE ROUTED THRU A POCKET AT THE TOP OF THE BEAMS, CREATED AT THE TIME THE BEAMS ARE POURED - FIELD COORDINATE LOCATION WITH THE GENERAL CONTRACTOR, PRIOR TO ROUGH-IN. SYSTEMS CONDUIT SHALL FOLLOW THE SAME PATH.
  - 36. PROVIDE THE WIRING BETWEEN THE STARTERS OF FANS EF-1 AND SAF-3, TO PROVIDE INTERLOCKING CONTROL, SO THAT WHEN EF-1 IS ENERGIZED THAT SAF-3 WILL BE ALSO.

- CODING NOTES** CONTINUED
- 17. CIRCUITRY FOR "STAIR" LIGHTING TO CONTINUE TO ABOVE.
  - 18. EXIT AND EXTERIOR EGRESS LIGHTING SHALL BE CIRCUITED TO ITS OWN NON-SWITCHED CIRCUITS. REFER TO THE PANEL "ET" SCHEDULE.
  - 19. COORDINATE THE FUTURE CONDUITS (BOTH SIZE AND QUANTITY) TO BE ROUTED-IN WITH THE OWNERS - PRIOR TO THE START OF THE WORK.
  - 20. 70A-3P AUTOMATIC TRANSFER SWITCH (ATS) - REFER TO THE ONE LINE DIAGRAM AND SPECIFICATIONS FOR ADDITIONAL NOTATION.
  - 21. PANELBOARD "ET", 100 AMPERE, 480Y/277V-3PH-4W, FUSIBLE PANELBOARD, WITH A 60A-3P MAIN SWITCH, SURFACE MOUNTED, IN A NEMA 1 ENCLOSURE, AND PROVIDED WITH SIX SPARES (BUSMANN, OR AN APPROVED EQUAL) - PROVIDED FOR SELECTIVE COORDINATION. REFER TO THE PANEL SCHEDULE FOR ADDITIONAL NOTATION.
  - 22. 15 KVA, COPPER COIL/WOUND, 480Y/277V-TO-208Y/120V, DRY-TYPE, STEP-DOWN, TRANSFORMER, HIGH WALL MOUNTED, IN A NEMA 1 ENCLOSURE, AND PROVIDED WITH SIX SPARES (BUSMANN, OR AN APPROVED EQUAL) - PROVIDED FOR SELECTIVE COORDINATION. REFER TO THE PANEL SCHEDULE FOR ADDITIONAL NOTATION.
  - 23. PANELBOARD "EA", 100 AMPERE, 208Y/120V-3PH-4W, FUSIBLE PANELBOARD, WITH A 60A-3P MAIN SWITCH, SURFACE MOUNTED, IN A NEMA 1 ENCLOSURE, AND PROVIDED WITH SIX SPARES (BUSMANN, OR AN APPROVED EQUAL) - PROVIDED FOR SELECTIVE COORDINATION. REFER TO THE PANEL SCHEDULE FOR ADDITIONAL NOTATION.
  - 24. MOUNT RECEPTACLE AT 48-INCHES AFF, AND PROVIDE WITH A WEATHERPROOF COVER (HUBBELL #WP29M, OR AN APPROVED EQUAL).
  - 25. DUPLEX SUMP PUMP (2 PUMPS), DESIGNED TO BE ALTERNATING OR REDUNDANT, SO THAT ONLY ONE OF THE TWO PUMPS CAN OPERATE AT ANY GIVEN TIME.
  - 26. CABINET LIGHT HEATER (CUH-1) - MOUNTED BELOW THE STARTER FOR SAF-1 ON THE LEFT OF THE ENTRY DOOR TO THE ELECTRICAL ROOM. FIELD COORDINATE FINAL LOCATIONS OF UNITS TO AVOID CONFLICTS.
  - 27. THE ELECTRICAL CONTRACTOR SHALL MAKE ALL FINAL POWER CONNECTIONS. ALSO, THE ELECTRICAL CONTRACTOR SHALL WIRE THE MOTOR CONTROL WIRING THRU A TIME CLOCK FURNISHED AND INSTALLED BY THE HVAC CONTRACTOR - FIELD COORDINATE LOCATION, PRIOR TO ROUGH-IN.
  - 28. THE ELECTRICAL CONTRACTOR SHALL MAKE ALL FINAL POWER CONNECTIONS. ALSO, THE ELECTRICAL CONTRACTOR SHALL WIRE THE MOTOR CONTROL WIRING THRU A THERMOSTAT FURNISHED AND INSTALLED BY THE HVAC CONTRACTOR - FIELD COORDINATE LOCATION, PRIOR TO ROUGH-IN.
  - 29. THE ELECTRICAL CONTRACTOR SHALL WIRE TO THE TRAP PRIMER ("TTP") INDICATED AS FURNISHED AND INSTALLED BY THE PLUMBING CONTRACTOR. MAKE ALL FINAL POWER CONNECTIONS - FIELD COORDINATE LOCATION, PRIOR TO ROUGH-IN.
  - 30. WIRE "DH" POWER THRU CONTROL, FURNISHED AND INSTALLED BY THE HVAC CONTRACTOR. THE ELECTRICAL CONTRACTOR SHALL MAKE ALL FINAL POWER CONNECTIONS - FIELD COORDINATE LOCATION, PRIOR TO ROUGH-IN.
  - 31. WIRE "UH" POWER TO EQUIPMENT - CONTROL SHALL BE PROVIDED INTEGRAL TO THE HEATER FURNISHED AND INSTALLED BY THE HVAC CONTRACTOR. THE ELECTRICAL CONTRACTOR SHALL MAKE ALL FINAL POWER CONNECTIONS - FIELD COORDINATE LOCATION, PRIOR TO ROUGH-IN.
  - 32. WIRE POWER TO MOTORIZED DAMPER - CONTROL SHALL BE WIRED TO THE STARTER FOR SAF-2, FOR INTERLOCKING CONTROL. THE ELECTRICAL CONTRACTOR SHALL MAKE ALL FINAL POWER CONNECTIONS - FIELD COORDINATE LOCATION, PRIOR TO ROUGH-IN.

- CODING NOTES**
- 1. PATH OF UNDERGROUND CONDUITS SERVING PANEL MDP AND THE ELEVATOR. REFER TO ONE LINE DIAGRAM FOR SIZES.
  - 2. PATH OF UNDERGROUND CONDUITS SERVING THE TELEPHONE BACKBOARD. COORDINATE ROUTING TO AVOID CONFLICTS WITH THE OTHER WORK.
  - 3. EMERGENCY PHONE AND BLUE LIGHT LOCATION, CONNECT TO CIRCUIT AS NOTED. PROVIDE 3/4" EMT TO TELEPHONE BACKBOARD.
  - 4. C.T. CABINET (WITH METERING) FOR THE GARAGE BUILDING ELECTRICAL SERVICE. REFER TO THE ELECTRICAL DISTRIBUTION ON SHEET EA.1 FOR ADDITIONAL INFORMATION / REQUIREMENTS.
  - 5. FUTURE C.T. CABINET (WITH METERING) FOR THE FUTURE BUILDING ELECTRICAL SERVICE. REFER TO THE ELECTRICAL DISTRIBUTION ON SHEET EA.1 FOR ADDITIONAL INFORMATION / REQUIREMENTS.
  - 6. PRIMARY CONDUITS (TWO FIVE-INCH CONDUITS) ROUTED FROM THE AEP PRIMARY ENCLOSURE TO THE NEW PAD-MOUNTED AEP TRANSFORMER. REFER TO SHEET ED.1 FOR CONTINUATION, AND ADDITIONAL INFORMATION / REQUIREMENTS.
  - 7. PROVIDE TWO TYPE "W9" LIGHTING FIXTURES IN THE ELEVATOR PIT - ALONG WITH A "FPO" RECEPTACLE AT 48-INCHES AFF, AND A CONNECTION TO THE ELEVATOR SUMP PUMP. COORDINATE THE INSTALLATION OF THE ELECTRICAL, TO AVOID CONFLICTS WITH THE OTHER WORK. SEE DETAIL ON SHEET E3.1.
  - 8. TELE/DATA SERVICE CONDUITS (TWO FOUR-INCH CONDUITS) ROUTED FROM THE ATT SITE ENCLOSURE TO THE NEW ATT ENCLOSURE, DIRECTLY ADJACENT TO AND FOR THE BUILDING(S). REFER TO SHEET ED.1 FOR CONTINUATION, AND ADDITIONAL INFORMATION / REQUIREMENTS.
  - 9. NEW ATT ENCLOSURE FOR THE BUILDING(S). REFER TO SHEET ED.1 FOR ADDITIONAL INFORMATION / REQUIREMENTS.
  - 10. TELE/DATA BUILDING CONDUITS. EXTEND TWO FOUR-INCH CONDUITS FROM THE ATT ENCLOSURE INDICATED IN CODED NOTE 9, UNDERGROUND, INTO THE NEW BUILDING(S) FOR FUTURE USE AND CAP. REFER TO SHEET ED.1 FOR ADDITIONAL INFORMATION / REQUIREMENTS.
  - 11. TELE/DATA GARAGE BUILDING CONDUITS. EXTEND TWO FOUR-INCH CONDUITS FROM THE ATT ENCLOSURE INDICATED IN CODED NOTE 9, UNDERGROUND /UNDERLOOR TO BELOW THE NEW GARAGE TELE/DATA BUILDING BACKBOARD AND STUB-UP AT 6-INCHES AFF BELOW THE BACKBOARD. REFER TO SHEET ED.1 FOR ADDITIONAL INFORMATION / REQUIREMENTS.
  - 12. TELE/DATA/SECURITY GARAGE BUILDING CONDUITS. EXTEND TWO ONE-INCH CONDUITS FROM THE NEW GARAGE TELE/DATA BUILDING BACKBOARD, UNDERGROUND /UNDERLOOR TO BELOW THE FUTURE PARKING ENTRY ISLANDS AND CAP UNDERLOOR FOR FUTURE USE.
  - 13. HOT WATER RECIRCULATION PUMP, ALONG WITH WATER HEATER "WH-1" THERE WILL BE A RECIRCULATION PUMP. PROVIDE A DISCONNECT AND A 20A, 120V CIRCUIT (2 #12 AND 1 #12 IN 0.75-INCH CONDUIT) TO THE PANEL. MAKE FINAL CONNECTIONS.
  - 14. ANY BARRIER POST - LOCATED IN FRONT OF AN ENCLOSURE, APPARATUS, OR EQUIPMENT ACCESS DOOR SHALL BE SLEEVED AT GRADE (AND BELOW) SO IT IS REMOVAL - FOR MAINTENANCE ACCESS.
  - 15. COORDINATE POWER CONNECTION AT EMERGENCY PHONE AND ITS EMERGENCY LIGHT ABOVE. EXTEND CIRCUITRY UP TO EMERGENCY PHONES AND LIGHTS ON THE LEVELS ABOVE.
  - 16. CIRCUITRY FOR TYPE "CL1" LUMINAIRES / LIGHTING FIXTURES SHALL BE ROUTED TO PANEL "1"; AND CIRCUITRY FOR TYPE "CL1A" LUMINAIRES / LIGHTING FIXTURES SHALL BE ROUTED TO PANEL "ET".

- GENERAL NOTES**
- A. ALL CONDUIT IN OPEN GARAGE AREA SHALL RUN PARALLEL AND PERPENDICULAR TO STRUCTURE. ALL CONDUITS SHALL BE RUN EXPOSED AND TIGHT TO SURFACE. ALL CONDUITS SHALL BE ROUTED THROUGH BLOCK-OUTS IN BEAMS.
  - B. MINIMUM CONDUIT SIZE USED SHALL BE 0.75-INCH, MINIMUM WIRE SIZE USED (FOR POWER) SHALL BE # 12 AWG. ALL CONDUITS AND ALL CIRCUITS SHALL BE PROVIDED WITH AN INSULATED GREEN GROUNDING CONDUCTOR.
  - C. WHERE NEW ELECTRICAL PENETRATIONS ARE REQUIRED IN THE GARAGE FLOOR, THEY SHALL BE CORE DRILLED BY THE GENERAL CONTRACTOR, AT THE EXPENSE OF THE ELECTRICAL CONTRACTOR. VERIFY LOCATIONS PRIOR TO THE START OF THE WORK.
  - D. ELECTRICAL CONTRACTOR IS RESPONSIBLE TO PROVIDE ALL NECESSARY FIRE STOPPING REQUIRED FOR ELECTRICAL CONDUIT / ELECTRICAL INSTALLATION, ON THIS PROJECT.
  - E. EXIT LIGHTING SHALL BE CONNECTED TO THE LOCAL UNSWITCHED EMERGENCY LIGHTING CIRCUITRY - TYPICAL.
  - F. PROVIDE AN ALLOWANCE TO FURNISH AND INSTALL FOUR (4) ADDITIONAL EXIT SIGNS, TO BE LOCATED AS DIRECTED BY THE FIELD INSPECTOR. INDICATE THE ALLOWANCE IN THE BID FOR THE WORK. IF THE EXIT SIGNS ARE NOT REQUIRED, RETURN THE UNUSED ALLOWANCE TO THE OWNER.
  - G. REFER TO THE LIGHTING LUMINAIRE (FIXTURE) SCHEDULE - AND ITS ASSOCIATED NOTATION ON SHEET E3.1, FOR ADDITIONAL INFORMATION AND REQUIREMENTS IN RELATION TO LIGHTING INDICATED ON THIS SHEET.
  - H. LIGHTING FIXTURES OR LUMINAIRES THAT ARE INDICATED AS HATCHED OR SHADED ON THIS DRAWING (ALONG WITH EXIT FIXTURES OR LUMINAIRES) - SHALL BE THE SAME AS SIMILARLY IDENTIFIED UNHATCHED LIGHTING FIXTURES OR LUMINAIRES - EXCEPT THAT THEY SHALL BE CONNECTED TO EMERGENCY CIRCUITRY SUPPORTED BY THE EMERGENCY GENERATOR. WIRE THROUGH THE LIGHTING / CONTRACTOR CONTROL (WITH ADDITIONAL RELAYS AS REQUIRED) SO THAT UPON LOSS OF POWER THE CONTROL WILL ALLOW FIXTURES SUPPORTED FROM THE EMERGENCY SOURCE TO CONTINUE TO FUNCTION.
  - I. SEE MOUNTING DETAIL SHEET E3.1 FOR MOUNTING OF CL1 AND CL1A FIXTURES.
  - J. ALL CONDUITS SERVING EXTERIOR SIGNAGE SHALL BE CONCEALED WITHIN THE BUILDING CONSTRUCTION TO LIMIT VISIBILITY FROM THE EXTERIOR. JUNCTION BOXES SHALL BE INSTALLED INSIDE THE BUILDING AND CONDUITS EXTENDED THROUGH THE EXTERIOR WALL, DIRECTLY INTO THE SIGNAGE TO LIMIT VISIBILITY.
  - K. BEAMS IN THE GARAGE AREA WILL BE POURED WITH A KNOTHOLE "BOX OUT" IN THE CENTER AREA OF THE BEAM FOR THE ROUTING OF CONDUITS WHICH IS WHY NORTH-SOUTH CONDUITS ARE INDICATED IN THE MIDDLE OF THE BAY ON THE DRAWING.
  - L. COORDINATE CONDUIT ROUTING - PRIOR TO THE START OF THE WORK - TO AVOID CONFLICTS WITH THE STRUCTURE AND OTHER TRADES.
  - M. COORDINATE WITH THE HVAC CONTRACTOR WHICH FANS ARE PROVIDED WITH MOTORIZED DAMPERS AT THE FANS - AND PROVIDE THE POWER WIRING FROM THE FAN TO THE DAMPER. MAKE ALL FINAL POWER CONNECTIONS.
  - N. ALL COMBINATION STARTERS INDICATED ON THIS DRAWING SHALL BE FURNISHED AND INSTALLED BY THE ELECTRICAL CONTRACTOR. PROVIDE THE CLOCKS FOR EACH STARTER. MAKE ALL FINAL POWER CONNECTIONS.



**FIRST FLOOR ELECTRICAL PLAN**  
SCALE: 3/32" = 1'-0"

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CITY OF GROVE CITY  
**GROVE CITY LUMBERYARD PARKING GARAGE**  
GROVE CITY, OHIO  
FIRST FLOOR ELECTRICAL PLAN

no. revisions: by:


Job no:  
date: 5/22/09  
sheet:  
**E1.1**  
X of: X

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**PRATER**  
Engineering Associates, Inc.  
6130 Wilcox Road (614) 766 4898  
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DESIGNED BY TEL DRAWN BY MFS CHECKED BY MFS JOB NO. 09031

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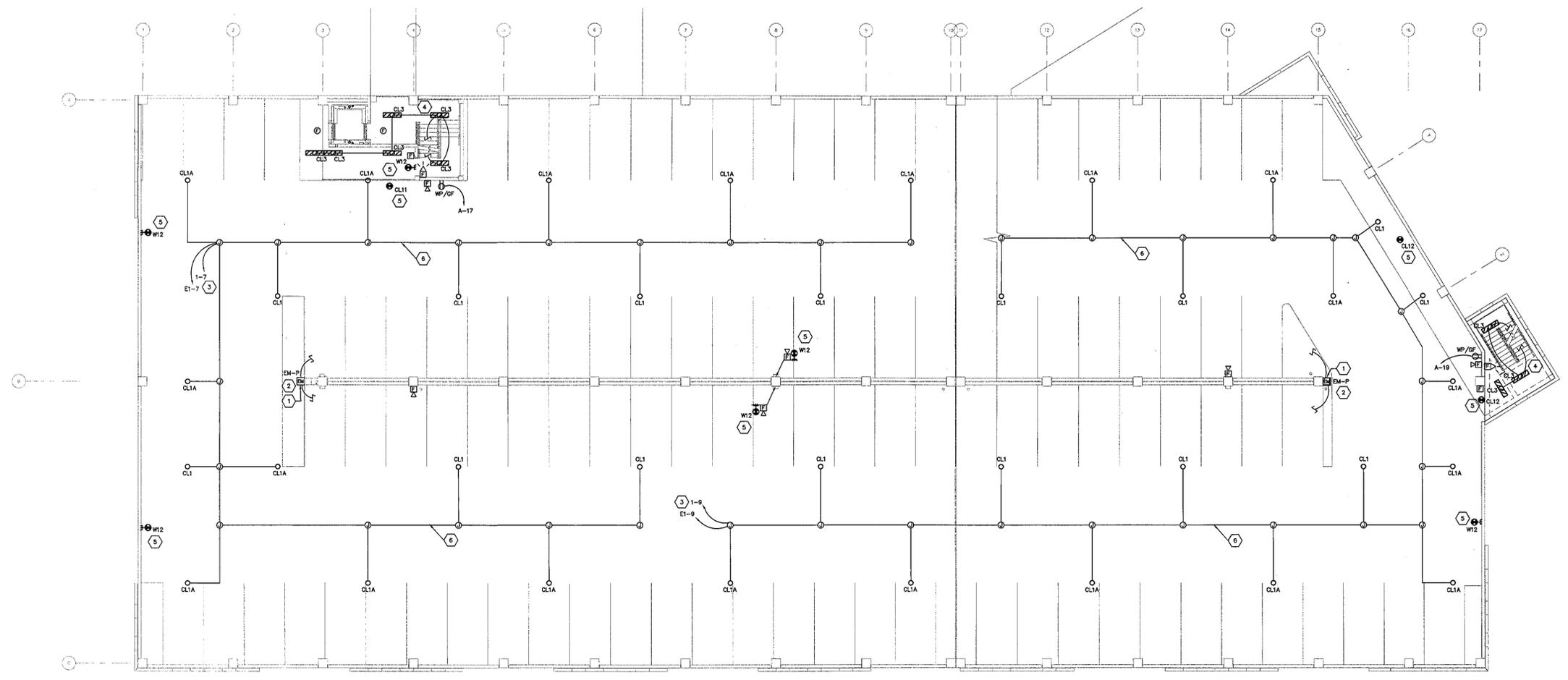
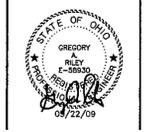
**CODED NOTES**

1. BLUE LIGHT LOCATION, CONNECT TO CIRCUIT AS NOTED. PROVIDE 3/4" EXIT TO TELEPHONE BACKBOARD.
2. COORDINATE POWER CONNECTION AT EMERGENCY PHONE AND ITS EMERGENCY LIGHT ABOVE. EXTEND CIRCUITRY UP/DOWN TO EMERGENCY PHONES AND LIGHTS ON THE LEVELS ABOVE AND BELOW.
3. CIRCUITRY FOR TYPE "CL1" LUMINAIRES / LIGHTING FIXTURES SHALL BE ROUTED TO PANEL "1"; AND CIRCUITRY FOR TYPE "CL1A" LUMINAIRES / LIGHTING FIXTURES SHALL BE ROUTED TO PANEL "E1".
4. CIRCUITRY FOR "STAIR" LIGHTING TO CONTINUE TO ABOVE AND BELOW.
5. EXIT AND EXTERIOR EGRESS LIGHTING SHALL BE CIRCUITED TO ITS OWN NON-SWITCHED CIRCUITS. REFER TO THE PANEL "E1" SCHEDULE.
6. CONDUIT INDICATED AS BEING ROUTED DOWN THE CENTER OF THE DRIVE ISLE SHALL BE ROUTED THRU A POCKET AT THE TOP OF THE BEAMS, CREATED AT THE TIME THE BEAMS ARE POURED - FIELD COORDINATE LOCATION WITH THE GENERAL CONTRACTOR, PRIOR TO ROUGH-IN. SYSTEMS CONDUIT SHALL FOLLOW THE SAME PATH.

**GENERAL NOTES**

- A. ALL CONDUIT IN OPEN GARAGE AREA SHALL RUN PARALLEL AND PERPENDICULAR TO STRUCTURE. ALL CONDUITS SHALL BE RUN EXPOSED AND TIGHT TO SURFACE. ALL CONDUITS SHALL BE ROUTED THROUGH BLOCK-OUTS IN BEAMS.
- B. MINIMUM CONDUIT SIZE USED SHALL BE 0.75-INCH. MINIMUM WIRE SIZE USED (FOR POWER) SHALL BE # 12 AWG. ALL CONDUITS AND ALL CIRCUITS SHALL BE PROVIDED WITH AN INSULATED GREEN GROUNDING CONDUCTOR.
- C. WHERE NEW ELECTRICAL PENETRATIONS ARE REQUIRED IN THE GARAGE FLOOR, THEY SHALL BE CORE DRILLED BY THE GENERAL CONTRACTOR, AT THE EXPENSE OF THE ELECTRICAL CONTRACTOR. VERIFY LOCATIONS PRIOR TO THE START OF THE WORK.
- D. ELECTRICAL CONTRACTOR IS RESPONSIBLE TO PROVIDE ALL NECESSARY FIRE STOPPING REQUIRED FOR ELECTRICAL CONDUIT / ELECTRICAL INSTALLATION, ON THIS PROJECT.
- E. EXIT LIGHTING SHALL BE CONNECTED TO THE LOCAL UNSWITCHED EMERGENCY LIGHTING CIRCUITRY - TYPICAL.
- F. PROVIDE AN ALLOWANCE TO FURNISH AND INSTALL FOUR (4) ADDITIONAL EXIT SIGNS, TO BE LOCATED AS DIRECTED BY THE FIELD INSPECTOR. INDICATE THE ALLOWANCE IN THE BID FOR THE WORK. IF THE EXIT SIGNS ARE NOT REQUIRED, RETURN THE UNUSED ALLOWANCE TO THE OWNER.
- G. REFER TO THE LIGHTING LUMINAIRE (FIXTURE) SCHEDULE - AND ITS ASSOCIATED NOTATION ON SHEET E3.1, FOR ADDITIONAL INFORMATION AND REQUIREMENTS IN RELATION TO LIGHTING INDICATED ON THIS SHEET.
- H. LIGHTING FIXTURES OR LUMINAIRES THAT ARE INDICATED AS HATCHED OR SHADED ON THIS DRAWING (ALONG WITH EXIT FIXTURES OR LUMINAIRES) - SHALL BE THE SAME AS SIMILARLY IDENTIFIED UNSHADED LIGHTING FIXTURES OR LUMINAIRES - EXCEPT THAT THEY SHALL BE CONNECTED TO EMERGENCY CIRCUITRY SUPPORTED BY THE EMERGENCY GENERATOR. WIRE THROUGH THE LIGHTING CONTRACTOR CONTROL (WITH ADDITIONAL RELAYS AS REQUIRED) SO THAT UPON LOSS OF POWER THE CONTROL WILL ALLOW FIXTURES SUPPORTED FROM THE EMERGENCY SOURCE TO CONTINUE TO FUNCTION.
- I. SEE MOUNTING DETAIL SHEET E3.1 FOR MOUNTING OF CL1 AND CL1A FIXTURES.
- J. ALL CONDUITS SERVING EXTERIOR SIGNAGE SHALL BE CONCEALED WITHIN THE BUILDING CONSTRUCTION TO LIMIT VISIBILITY FROM THE EXTERIOR. JUNCTION BOXES SHALL BE INSTALLED INSIDE THE BUILDING AND CONDUITS EXTENDED THROUGH THE EXTERIOR WALL, DIRECTLY INTO THE SIGNAGE TO LIMIT VISIBILITY.
- K. BEAMS IN THE GARAGE AREA WILL BE POURED WITH A KNOTCHED "BOX OUT" IN THE CENTER AREA OF THE BEAM FOR THE ROUTING OF CONDUITS WHICH IS WHY NORTH-SOUTH CONDUITS ARE INDICATED IN THE MIDDLE OF THE BAY ON THE DRAWING.
- L. COORDINATE CONDUIT ROUTING - PRIOR TO THE START OF THE WORK - TO AVOID CONFLICTS WITH THE STRUCTURE AND OTHER TRADES.

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**SECOND FLOOR ELECTRICAL PLAN**  
 SCALE: 3/32" = 1'-0"

CITY OF GROVE CITY  
**GROVE CITY LUMBERYARD PARKING GARAGE**  
 GROVE CITY, OHIO  
**SECOND FLOOR ELECTRICAL PLAN**

no.	revisions:	by:

Job no:  
 date: 5/22/09  
 sheet:  
**E1.2**  
 X of X

E1.2-09031.DWG  
**PRATER**  
 Engineering Associates, Inc.  
 6130 Wilcox Road (614) 766 4896  
 Dublin, Ohio 43016 FAX: (614) 766 2354  
 DESIGNED BY: TEL. CHECKED BY: MWS JOB NUM: 09031

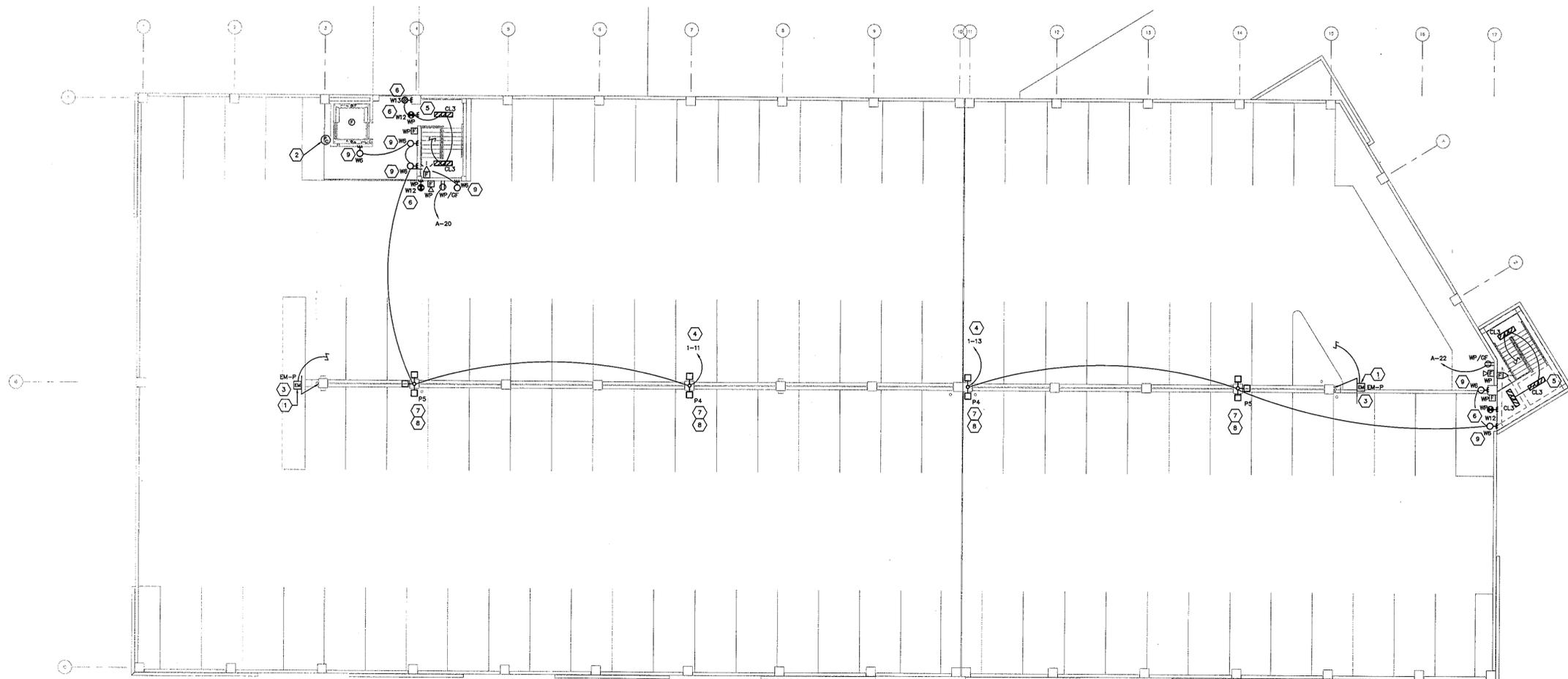
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**CODED NOTES**

1. BLUE LIGHT LOCATION, CONNECT TO CIRCUIT AS NOTED. PROVIDE 3/4" EMT TO TELEPHONE BACKBOARD.
2. PHOTO-CELL MOUNTED TO FACE NORTH, USED TO CONTROL THE GENERAL GARAGE LIGHTING. REFER TO THE CONTROL DIAGRAM ON SHEET E3.1.
3. COORDINATE POWER CONNECTION AT EMERGENCY PHONE AND ITS EMERGENCY LIGHT ABOVE. EXTEND CIRCUITRY DOWN TO EMERGENCY PHONES AND LIGHTS ON THE LEVELS BELOW.
4. CIRCUITRY FOR TYPE "P4" AND "P5" LUMINAIRES / LIGHTING FIXTURES SHALL BE ROUTED TO PANEL "1".
5. CIRCUITRY FOR "STAIR" LIGHTING TO CONTINUE TO BELOW.
6. EXIT AND EXTERIOR EGRESS LIGHTING SHALL BE CIRCUITED TO ITS OWN NON-SWITCHED CIRCUITS. REFER TO THE PANEL "21" SCHEDULE. ASSURE A WEATHERPROOF ("WP") INSTALLATION - AT THIS LEVEL.
7. PROVIDE LIGHTING POLE ANCHOR BOLTS, AND LUMINAIRE / LIGHTING FIXTURE ANCHOR BOLT TEMPLATE TO THE GENERAL CONTRACTOR PRIOR TO THE START OF THE WORK AT THIS LEVEL.
8. COORDINATE WITH THE PROMISON (AND INSTALLATION) OF THE LIGHTNING PROTECTION SYSTEM. REFER TO THE SPECIFICATIONS.
9. MOUNT THE TYPE W6 LIGHTING FIXTURES - AS HIGH ON THE WALL AS POSSIBLE - COORDINATING NOT TO INTERFERE WITH THE ROOF STRUCTURE. FIELD COORDINATE PRIOR TO ROUGH-IN.

**GENERAL NOTES**

- A. ALL CONDUIT IN OPEN GARAGE AREA SHALL RUN PARALLEL AND PERPENDICULAR TO STRUCTURE. ALL CONDUITS SHALL BE RUN EXPOSED AND TRAIT TO SURFACE. ALL CONDUITS SHALL BE ROUTED THROUGH BLOCK-OUTS IN BEAMS.
- B. MINIMUM CONDUIT SIZE USED SHALL BE 0.75-INCH. MINIMUM WIRE SIZE USED (FOR POWER) SHALL BE # 12 AWG. ALL CONDUITS AND ALL CIRCUITS SHALL BE PROVIDED WITH AN INSULATED GREEN GROUNDING CONDUCTOR.
- C. WHERE NEW ELECTRICAL PENETRATIONS ARE REQUIRED IN THE GARAGE FLOOR, THEY SHALL BE CORE DRILLED BY THE GENERAL CONTRACTOR, AT THE EXPENSE OF THE ELECTRICAL CONTRACTOR. VERIFY LOCATIONS PRIOR TO THE START OF THE WORK.
- D. ELECTRICAL CONTRACTOR IS RESPONSIBLE TO PROVIDE ALL NECESSARY FIRE STOPPING REQUIRED FOR ELECTRICAL CONDUIT / ELECTRICAL INSTALLATION, ON THIS PROJECT.
- E. EXIT LIGHTING SHALL BE CONNECTED TO THE LOCAL UNSWITCHED EMERGENCY LIGHTING CIRCUITRY - TYPICAL.
- F. PROVIDE AN ALLOWANCE TO FURNISH AND INSTALL FOUR (4) ADDITIONAL EXIT SIGNS, TO BE LOCATED AS DIRECTED BY THE FIELD INSPECTOR. INDICATE THE ALLOWANCE IN THE BID FOR THE WORK. IF THE EXIT SIGNS ARE NOT REQUIRED, RETURN THE UNUSED ALLOWANCE TO THE OWNER.
- G. REFER TO THE LIGHTING LUMINAIRE (FIXTURE) SCHEDULE - AND ITS ASSOCIATED NOTATION ON SHEET E3.1, FOR ADDITIONAL INFORMATION AND REQUIREMENTS IN RELATION TO LIGHTING INDICATED ON THIS SHEET.
- H. LIGHTING FIXTURES OR LUMINAIRES THAT ARE INDICATED AS HATCHED OR SHADED ON THIS DRAWING (ALONG WITH EXIT FIXTURES OR LUMINAIRES) - SHALL BE THE SAME AS SIMILARLY IDENTIFIED UNSHADED LIGHTING FIXTURES OR LUMINAIRES - EXCEPT THAT THEY SHALL BE CONNECTED TO EMERGENCY CIRCUITRY SUPPORTED BY THE EMERGENCY GENERATOR. WIRE THROUGH THE LIGHTING / CONTACTOR CONTROL (WITH ADDITIONAL RELAYS AS REQUIRED) SO THAT UPON LOSS OF POWER THE CONTROL WILL ALLOW FIXTURES SUPPORTED FROM THE EMERGENCY SOURCE TO CONTINUE TO FUNCTION.
- I. ALL CONDUITS SERVING EXTERIOR SIGNAGE SHALL BE CONCEALED WITHIN THE BUILDING CONSTRUCTION TO LIMIT VISIBILITY FROM THE EXTERIOR. JUNCTION BOXES SHALL BE INSTALLED INSIDE THE BUILDING AND CONDUITS EXTENDED THROUGH THE EXTERIOR WALL, DIRECTLY INTO THE SIGNAGE TO LIMIT VISIBILITY.
- J. COORDINATE CONDUIT ROUTING - PRIOR TO THE START OF THE WORK - TO AVOID CONFLICTS WITH THE STRUCTURE AND OTHER TRADES.



**THIRD FLOOR ELECTRICAL PLAN**  
SCALE: 3/32" = 1'-0"

**BIRD HOOK COLLABORATIVE**  
architecture | planning | urban design | economics  
6300 Peninsula  
papa | galbraith, ohio  
43020  
phone: 614-450-0600  
www.birdhook.com



CITY OF GROVE CITY  
**GROVE CITY LUMBERYARD PARKING GARAGE**  
GROVE CITY, OHIO  
THIRD FLOOR ELECTRICAL PLAN  
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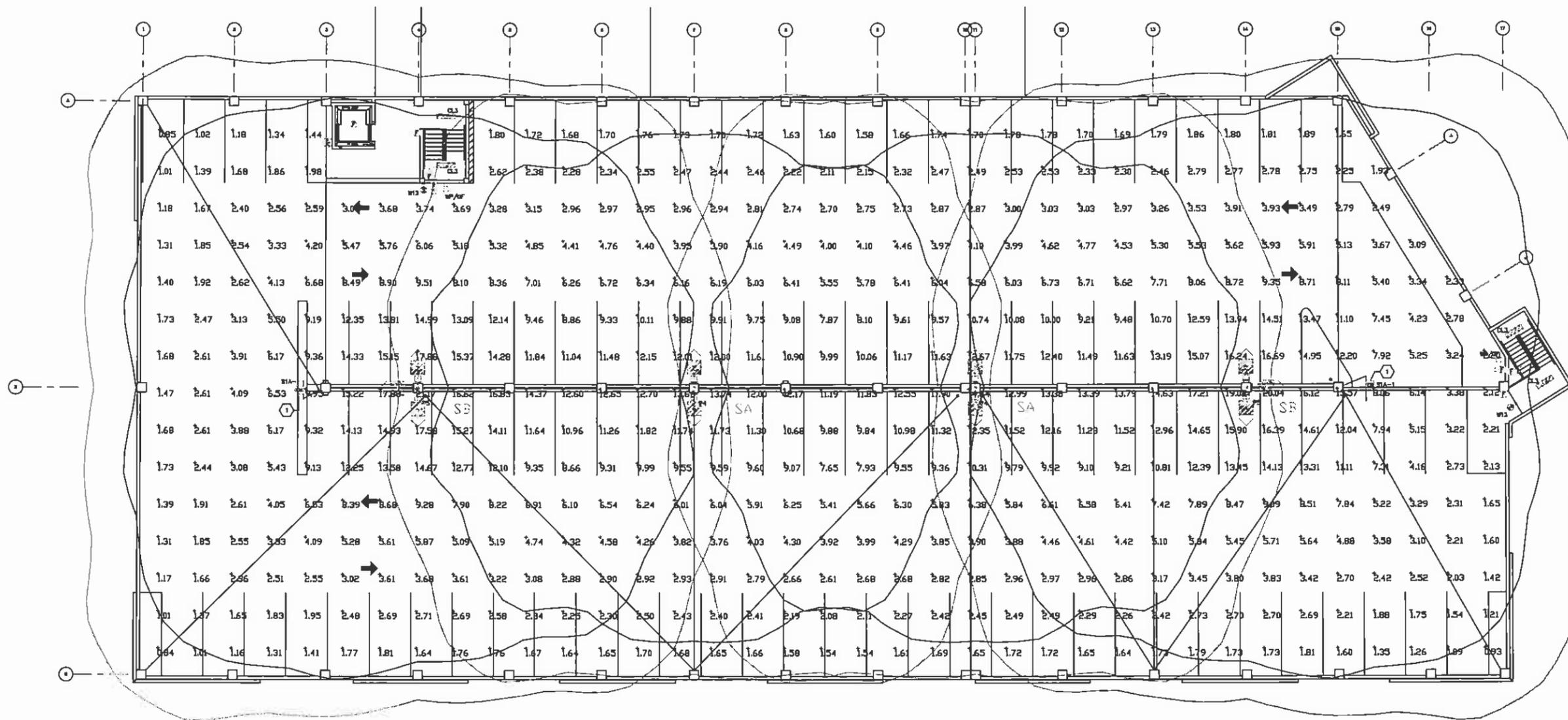
no.	revisions:	by:

job no:  
date: 5/22/09  
sheet:

E1.3-09031.DWG  
**PRATER**  
Engineering Associates, Inc.  
6130 Wilcox Road (614) 766 4896  
Dublin, Ohio 43016 FAX: (614) 766 2354  
DESIGNED BY TEL DRAWN BY TEL CHECKED BY MMS JOB NUM. 09031

**E1.3**  
X of: X







Applications Department  
 1611 Clovis Barker Rd.  
 San Marcos, TX 78666  
 Phone: 512-753-1000  
 Fax: 512-753-1241  
 Email: apps@site-lighting.com

Project: Grove City Garage Project #300-7890-R3  
 Specifier: Tim Leykauf - Prater Engineering Associates, Inc.  
 Agent: Bob Brahier - Mid Ohio Lighting Sales, Ltd  
 Calculations By: Andrew Grimmer - Gardco Lighting  
 Date: March 2, 2009  
 Scale: 1 : 1  
 Filename: T:\Private\apps\2009\MidOhio#300\GroveCityLumbyard#300-7890\300-7890-R3.AGI  
 Photometric data used is based on established IES procedures and published lamp ratings.  
 Pt. x pt. values shown are horizontal illuminance at grade (single-plane), in footcandles.  
 The LLF is based on lamp manufacturer's published mean lumen ratings.  
 Field performance will depend on actual lamp, ballast, electrical, and site characteristics.  
 Luminaire height shown is approximate overall mounting height above finished grade. (U.N.O.)

Luminaire Schedule							
Project: Grove City Garage							
Symbol	Qty	Label	Description	Arrangement	Lumens	LLF	Filename
< [Symbol] >	2	SA	Gardco G18-2-4XL-400PSMH @ 23.5'	BACK-BACK	40000	0.750	GW4X4Miles
[Symbol]	2	SB	Gardco G18-3-4XL-400PSMH @ 23.5'	3 @ 90 DEGREES	40000	0.750	GW4X4Miles

Numeric Summary							
Project: Grove City Garage							
Label	Avg	Max	Min	Avg/Min	Max/Min	# Pts	Units
CalcPts	5.92	21.17	0.84	7.05	25.20	533	Fc

Grove City Lumberyard Finish Schedule

Face Brick

Bowerston Frisco Blend Modular or equal  
Mortar to be determined

Stucco

match Parex sand smooth color 21903, (Dryvit #4455A Pearl)

Cast stone

match Edwards Cast stone sample 10-010

Cementitious Siding

Cedar texture, trim white, field color to be determined

Misc trim

Galv Steel Pediments to be painted black  
Galv Steel trellis to remain galv steel  
Sheet metal trim black typical

Metal roof color

Sandstone, patina green or leaf green by DMI

## Horseshoe™ -HS2™

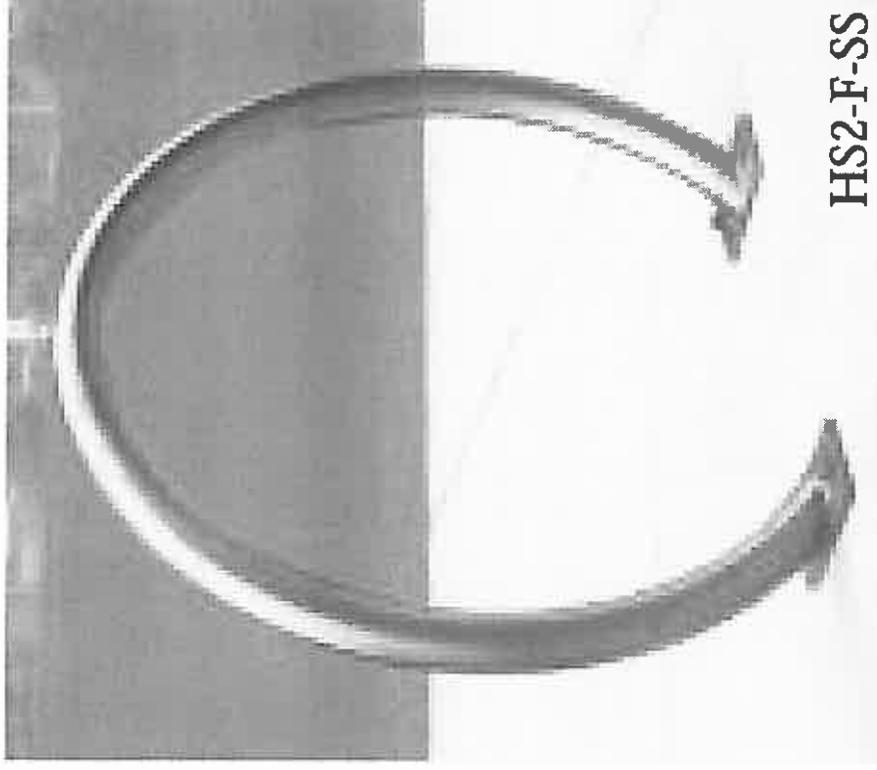
**MATERIALS:** 2 3/8" O.D. Schedule 40 steel pipe or 2" square steel tube.

**MOUNTING:** Embedded (standard) or flanged surface mount (optional).

**FINISH OPTIONS:**  
stainless steel with a #4 satin finish

**CAPACITY:** 2 bikes.

**SIZE:** 36" L x 32.5" H



HS2-F-SS

[www.creativepipe.com](http://www.creativepipe.com)



1•800•644•8467

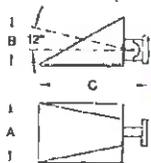
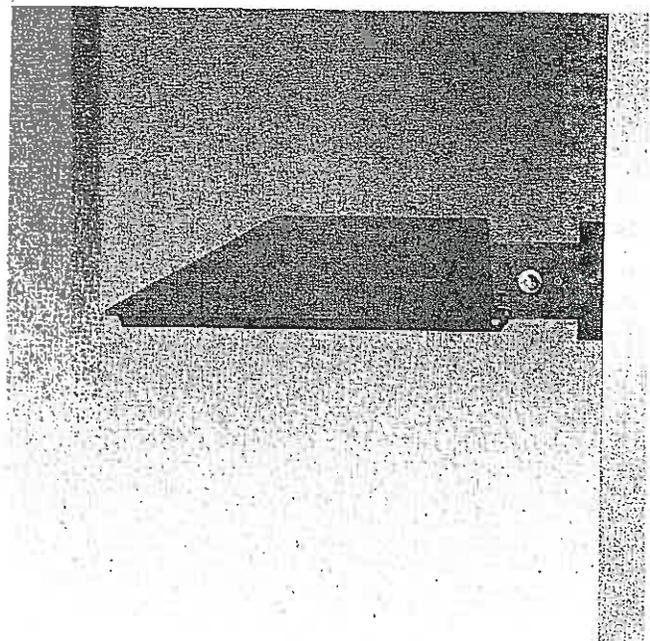
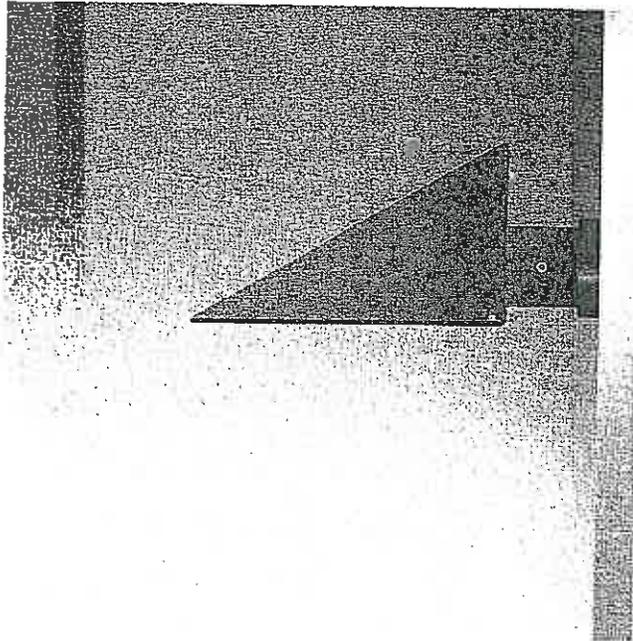
**Housing:** One piece die-cast aluminum with integral arm and canopy supplied with a universal mounting bracket for direct attachment to a 3½" or 4" octagonal wiring box. A die-cast aluminum round "rotation" plate allows the housing to be precisely leveled (or rotated) after installation.

**Enclosure:** Clear tempered glass with twin main beam specular anodized aluminum reflector held by a die-cast aluminum hinged door secured with captive stainless steel fasteners threaded into stainless steel inserts. Fully gasketed for weather tight operation using a molded silicone rubber "U-channel" gasket.

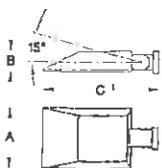
**Electrical:** Lampholders: H.I.D. are medium base porcelain with nickel plated screw shell supplied. Pulse rated 4KV. Fluorescent are type G24q-3 (26W), rated 75W, 250V. Ballasts: Compact fluorescent are electronic, universal voltage 120V through 277V.

**Finish:** Available in five standard BEGA colors: Black (BLK); White (WHT); Bronze (BRZ); Silver (SLV); Eurocoat™ (URO). To specify, add appropriate suffix to catalog number. Custom colors supplied on special order.

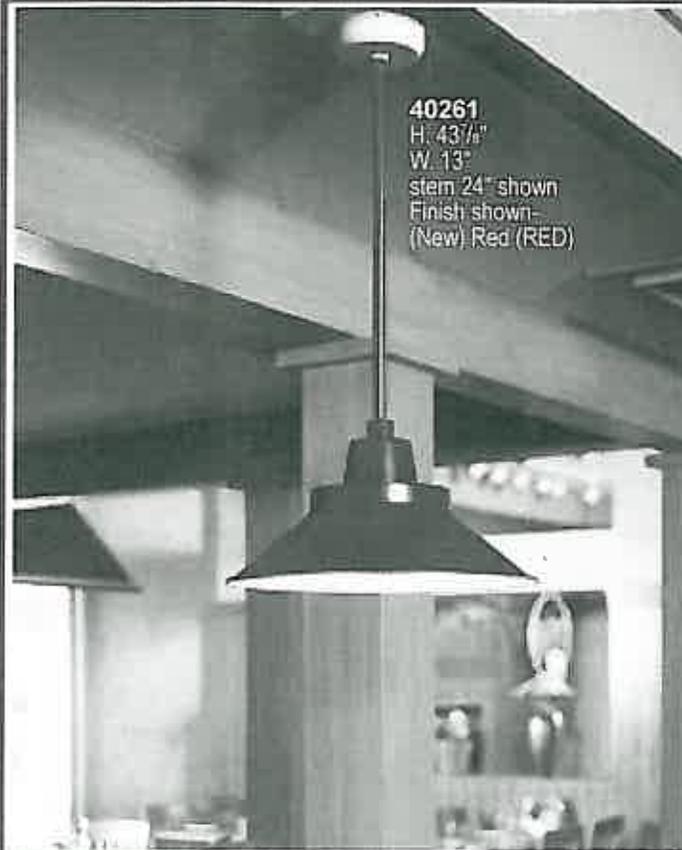
U.L. listed, suitable for wet locations (see page 378).  
Protection class: IP 65.



Fluorescent Lamp			Lumen	A	B	C
6344 P	2	26W CFquad-4p	3600	13¾	10¾	24
<b>High Pressure Sodium Lamp</b>						
6345 S	1	100W E-17 HPS	9500	13¾	10¾	24
<b>Metal Halide Lamp</b>						
6345 MH	1	100W ED-17 MH	8800	13¾	10¾	24



Fluorescent Lamp			Lumen	A	B	C
4491 P	2	26W CFquad-4p	3600	13	5¾	25¾
<b>Metal Halide Lamps</b>						
4492 MH	1	175W ED-17 MH	13000	13	5¾	25¾
4495 MH	1	250W ED-28 MH	19500	16¾	8¾	30¾



**40261**  
H. 43<sup>7</sup>/<sub>8</sub>"  
W. 13"  
stem 24" shown  
Finish shown-  
(New) Red (RED)



**36491**  
H. 22<sup>7</sup>/<sub>8</sub>"  
W. 9<sup>7</sup>/<sub>8</sub>"  
Ext. 27<sup>1</sup>/<sub>4</sub>"  
T/O 6<sup>7</sup>/<sub>8</sub>"  
Finish shown-  
White (WHT)

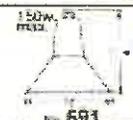


**37681**  
H. 14<sup>1</sup>/<sub>8</sub>"  
W. 19<sup>5</sup>/<sub>8</sub>"  
Ext. 25<sup>5</sup>/<sub>8</sub>"  
T/O 4"  
Finish shown-  
Shadow burgundy (SBU)



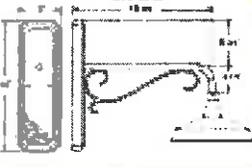
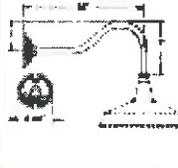
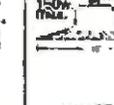
**37492**  
H. 18"  
W. 9<sup>7</sup>/<sub>8</sub>"  
Ext. 19<sup>1</sup>/<sub>8</sub>"  
T/O 4"  
Finish shown-  
Forest Green (FGN)

**SPUN ALUMINUM SHADES AVAILABLE**



## FIXTURE SELECTION

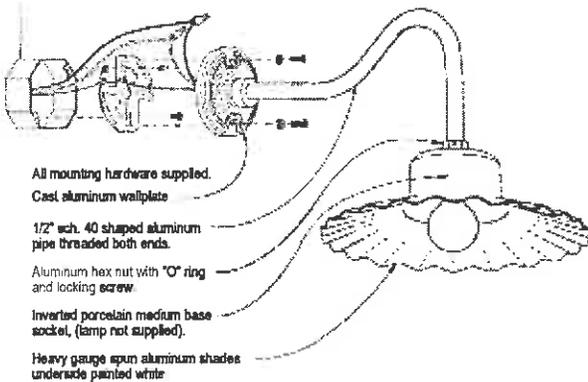
SELECT THE MOUNTING STYLE YOU PREFER, EXAMPLE NO. 37.  
THEN SELECT THE STYLE AND SIZE SHADE YOU PREFER, EXAMPLE NO. 481. THE COMPLETE MODEL NO. WILL BE 37481.

<b>MOUNTING STYLES</b> Models Available						<b>FOR INDOOR USE</b>										
No. 34 BRACKET 	No. 35 BRACKET 	No. 36 BRACKET 	No. 37 BRACKET 	No. 38 BRACKET 	No. 40 STEM MOUNT 	No. 41 CORD MOUNT 	100w. max.	100w. max.								
<b>SPUN ALUMINUM SHADES AVAILABLE</b>			<b>WIRE GUARDS</b> ENAMEL PLATED STAINLESS STEEL BY 300 WATT BRACKET NO. 241-481-641 only.													
No. 241 	No. 441 	No. 641 	No. 251 	No. 451 	No. 261 	No. 461 	No. 271 	No. 471 	No. 481 	No. 681 	No. 291 	No. 491 	No. 691 	No. 292 	No. 492 	No. 692 

## SPECIFICATIONS

(Outlet box not supplied)

MODEL No. shown 37481



- All mounting hardware supplied.
- Cast aluminum wallplate
- 1/2" wh. 40 shaped aluminum pipe threaded both ends.
- Aluminum hex nut with "O" ring and locking screw.
- Inverted porcelain medium base socket, (lamp not supplied).
- Heavy gauge spun aluminum shades underside painted white.

## FEATURES

### SOURCE:

INC.-incandescent only, up to 200w. max.

### FINISHES:

All Hanover Lantern finishes available, see Sitescape catalog no. 9168-rev. 401, page 3, or Incandescent catalog no. 9182-1099, page 4 for selection, plus NEW "RED" finish for RLM fixtures only.

### MOUNTING STYLES:

A variety of mounting configurations are offered to complement virtually any application.

### SPUN SHADES:

Select from a variety of designs and sizes of heavy gauge spun aluminum shades, underside painted white.

(Scaled specification drawing of each complete model is available upon request.)

## ORDERING GUIDE

To ensure prompt and efficient processing of your order, please follow the sequence listed in the example below.

- ① **MODEL NO.:**  
(mounting style)  
34 38  
35 40  
36 41  
37

### ACCESSORIES:

WIRE GUARDS	
Part no.	For shade no.
07-438-00	241
07-439-00	441
07-440-00	641

- ② **MODEL NO.:**  
(spun shades)  
241 261 681 492  
441 461 291 692  
641 271 491  
251 471 691  
451 481 292

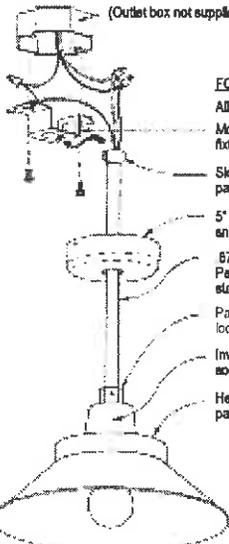
### ③ FINISH:

(see page 3 for selection, plus RED for RLM fixtures only).

① ② ③  
37481 SBU

(Outlet box not supplied)

MODEL No. shown 40261



### FOR INDOOR USE

- All mounting hardware supplied.
- Mounting bracket allows for easy fixture installation and wiring.
- Slotted (anti-twist) hang straight, painted white.
- 5" diameter steel canopy, painted white snap-on installation.
- 675" dia. aluminum stem, threaded both ends. Painted to match shade finish. 12" long stem is standard, 20", 30", AND 36" lengths available.
- Painted aluminum hex nut with "O" ring and locking screw.
- Inverted porcelain medium base socket, (lamp not supplied).
- Heavy gauge spun aluminum shade painted white on underside.

Notes:

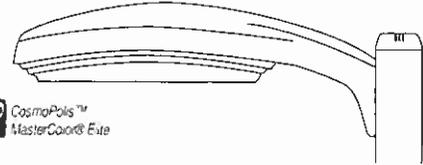
Job:

Type:



# GULLWING

## G18 AREA LUMINAIRES



CosmoPole™  
MasterColor® Elite

**GENERAL DESCRIPTION:** The Gardco Gullwing is an area luminaire defined by its sleek profile and rugged construction. The housing is one-piece, diecast aluminum and mounts directly to a pole or wall without the need of a separate support arm. The multifaceted arc-image duplicating optical systems provide IES Types I, II, III, IV and V distributions. The door frame is single-piece diecast aluminum and retains an optically clear tempered flat glass lens. The luminaire is completely sealed and gasketed preventing intrusion from moisture, dust and insects. The Gullwing luminaires are finished with a fade and abrasion resistant TGIC powdercoat.

**CUTOFF PERFORMANCE:** Flat glass lens luminaires provide full cutoff performance. Sag Lens luminaires provide cutoff performance.

### ORDERING

PREFIX	MOUNTING	DISTRIBUTION	WATTAGE	VOLTAGE	FINISH	OPTIONS

Enter the order code into the appropriate box above. Note: Gardco reserves the right to refuse a configuration. Not all combinations and configurations are valid. Refer to notes below for exclusions and limitations. For questions or concerns, please consult the factory.

PREFIX	
G18	18" Gullwing Luminaire

MOUNTING			
1	Single Assembly	3@120	Triple at 120°
2	Twin Assembly		Not available with PTF Option.
2@90	Twin Assembly at 90°	4	Quad Assembly
3	Triple at 90°	W	Wall Mount, Recessed J-Box
		WS	Wall Mount, Surface Conduit

DISTRIBUTION	
1	Type I, Horizontal Lamp (Not available above 400w.)
2XL	Type II, Horizontal Lamp
3XL	Type III, Horizontal Lamp
4XL	Type IV, Horizontal Lamp
Q	Type V, Horizontal Lamp (Not available above 400w.)
MTS	Medium Throw with Solite Lens (Fluorescent only.)

WATTAGE				
Pulse Start MH Magnetic Ballast	100MH <sup>2</sup>	250PSMH	400PSMH <sup>1</sup>	1000PSMH <sup>2*</sup>
	150MH <sup>2</sup>	320PSMH <sup>1</sup>	750PSMH <sup>2</sup>	
	175PSMH	350PSMH <sup>1</sup>	875PSMH <sup>2</sup>	
Standard MH Magnetic Ballast	175MH <sup>1</sup>	250MH <sup>1</sup>	400MH <sup>1,1</sup>	1000MH <sup>2,1</sup>
CosmoPole™ Electronic System	60CMPE <sup>1,2,12</sup>	140CMPE <sup>1,12</sup>		
MasterColor® Elite Electronic System	210MCE <sup>1,2,12</sup>	315MCE <sup>1,2,12</sup>		
Pulse Start MH Electronic Ballast	150PSE <sup>1,2,12</sup>	175PSE <sup>1,2,12</sup>	250PSE <sup>1,2,12</sup>	320PSE <sup>1,2,12</sup>
High Pressure Sodium Magnetic Ballast	70HPS	150HPS	400HPS	750HPS <sup>2</sup>
	100HPS	250HPS	600HPS	
Compact Fluorescent Electronic Ballast	(2)60CF <sup>2</sup>	(2)85CF <sup>2</sup>	(2)120CF <sup>2</sup>	
Low Pressure Sodium Magnetic Ballast	35LPS			

VOLTAGE	FINISH
120	UNIV <sup>7</sup>
208	200-277
240	CMPE, MCE, and PSE types only <sup>8</sup>
277	
347	
480	
	BRP
	BLP
	WP
	NP
	OC
	SC

OPTIONS	
F <sup>3</sup>	Fusing in Head.
LF	In-Line/In-Pole Fusing
PC <sup>10</sup>	Photocontrol and Receptacle
PCR	Photocontrol Receptacle only
POLY <sup>11</sup>	Polycarbonate Sag Lens
HS	Internal Houseside Shield
QS <sup>12</sup>	Quartz Standby
QST <sup>12</sup>	Quartz Standby-Timed Delay
SG <sup>13</sup>	Sag Glass Lens
RPA1 <sup>14</sup>	3" Round Pole Adapter
RPA2 <sup>15</sup>	4" and 5" Round Pole Adapter
PTF2 <sup>16</sup>	Pole Top Filter - 2 3/8" - 3" Dia. Tenon
PTF3 <sup>16</sup>	Pole Top Filter - 3" - 3 1/2" Dia. Tenon
PTF4 <sup>16</sup>	Pole Top Filter - 3 1/2" - 4" Dia. Tenon
SQPTF	Square Pole Top Filter
TR1 <sup>17</sup>	Single Transition
TR2 <sup>17</sup>	Twin Transition
MF <sup>18</sup>	Mast Arm Filler
GDR <sup>19</sup>	Provision for Gardco Demand Response

**Notes:**

- Requires E28/BT28 lamp.
- Furnished with sag glass lens only.
- Mogul base lamp required.
- UL Listed at 40°C ambient.
- MCE, PSE available 200-277V only. CMPE available 120V or 200-277V only.
- See 1000 watt lamp tables.
- G18 fluorescent ballasts accept 120V through 277V. Specify "UNIV" for voltage. Starting temperature is -22° F / -30° C.
- MTS Optic only. Not available in 347V or 480V.
- Not available above 400W.
- Not available in 480V. Provide Specific input voltage.
- 250W maximum. Polycarbonate lenses carry 1 year warranty only.
- See QS/QST Table.
- In lieu of flat glass. Supplied standard and required with 750W and higher wattages.
- Required for 3" O.D. round or tapered round poles where top O.D. is less than 4".
- Required for 4"-5" O.D. round poles.
- Not available with 120° mounting configurations.
- Mounts to a 2-3/8" Top Tenon. Specify a pole with a 4.50" O.D. for a smooth transition.
- Mounts to a 2-3/8" O.D. mast arm.
- Available only with 175PSMH through 400PSMH and 150HPS through 400HPS wattages. Includes dual-level capacitor and wiring to connect to Gardco Demand Response System.

(Note 6: 1000 Watt lamp tables)

For 1000 Watt Metal Halide, use:

Brand	Product Code	Catalog Number
Venture	53702	MS1000W/HOR/BT37/3K
G.E.	18205	MVR1000/UBT37
Venture	15332	MH1000W/UBT37

For 1000 Watt Pulse Start Metal Halide, use:

Brand	Product Code	Catalog Number
G.E.	10389	MVR1000/UBT37/PA
Venture	49111	MS1000W/HOR/T25/PS

**WARNING: Use of other lamps voids warranty.**

(Note 12)

QS / QST Table	
HID Lamp Watts	Maximum Quartz Lamp Watts <sup>1</sup>
175 watts or less	100 watts
Above 175 watts	150 watts

QST and QST are not available with CMPE, MCE or PSE wattages. Luminaires above 400 watts HID not available with QS or QST options.

Gardco Lighting 1611 Clovis Barker Road San Marcos, TX 78666 (800) 227-0758 (512) 753-1000 FAX: (512) 753-7855 www.sitelighting.com  
 © Copyright 2009 Philips Group. All Rights Reserved. International Copyright Secured. Gardco Lighting reserves the right to change materials or modify the design of its product without notification as part of the company's continuing product improvement program. The Gullwing design is protected by U.S. patent number DES.391.659 The XL optical system is protected by U.S. patent number 5690422.



# GULLWING

## G18 AREA LUMINAIRES



### SPECIFICATIONS

**GENERAL DESCRIPTION:** The Gardco Gullwing is an area luminaire defined by its sleek profile and rugged construction. The housing is one-piece, diecast aluminum and mounts directly to a pole or wall without the need of a separate support arm. The multifaceted arc-image duplicating optical systems provide IES Types I, II, III, IV and V distributions. The door frame is single-piece diecast aluminum and retains an optically clear tempered flat glass lens. The luminaire is completely sealed and gasketed preventing intrusion from moisture, dust and insects. The Gullwing luminaires are finished with a fade and abrasion resistant TGIC powdercoat.

**HOUSING:** A one-piece diecast aluminum housing mounts directly to a pole or wall without the need for a support arm. The low profile rounded form reduces the effective projected area of the luminaire to only 1.2 ft<sup>2</sup>/1.1 m<sup>2</sup>.

**LENS ASSEMBLY:** A single-piece diecast aluminum lens frame hinges down from the housing and is secured by a stainless steel lanyard and hinge pin.

An optically clear, heat and impact resistant tempered flat glass lens is mechanically secured with eight retainers. The electrical and optical chambers are thoroughly sealed with a one-piece memory retentive hollow-core EPDM gasket to prevent intrusion by moisture, dust, and insects.

**OPTICAL SYSTEMS:** The segmented optical systems are manufactured from homogenous sheet aluminum which has been electrochemically brightened, anodized and sealed. The multifaceted arc image duplicating systems are designed to produce IES Types I (1), II (2XL), III (3XL), IV (4XL), and V (Q). With the 2XL, 3XL and 4XL luminaires, the reflector facets form a conical fan around the arc tube with each facet positioned to be precisely tangent to the top of the arc tube.

The lampholder is glazed porcelain with a nickel plated screw shell.

Position-oriented mogul base sockets to accept high output horizontal metal halide lamps are supplied standard.

Fluorescent luminaires use a Medium Throw reflector with a Solite® glass lens (MTS).

**ELECTRICAL:** All electrical components are UL recognized and factory tested. Electronic and magnetic HID ballasts are high power factor and mounted on a unitized tray with quick electrical disconnects. Magnetic HID ballasts are the separate component type. Electronic and magnetic HID ballasts are capable of providing reliable lamp starting down to -20°F / -29°C. Standard fluorescent ballasts are solid state.

Luminaires provided with the CosmoPolis™ or MasterColor® Elite high performance ceramic metal halide electronic systems include high power factor electronic ballasts, designed specifically for the system selected.

**FINISH:** Each standard color luminaire receives a fade and abrasion resistant, electrostatically applied, thermally cured, triglycidal isocyanurate (TGIC) textured polyester powdercoat finish. Standard colors include bronze (BRP), black (BLP), white (WP), and natural aluminum (NP). Consult factory for specs on optional or custom colors.

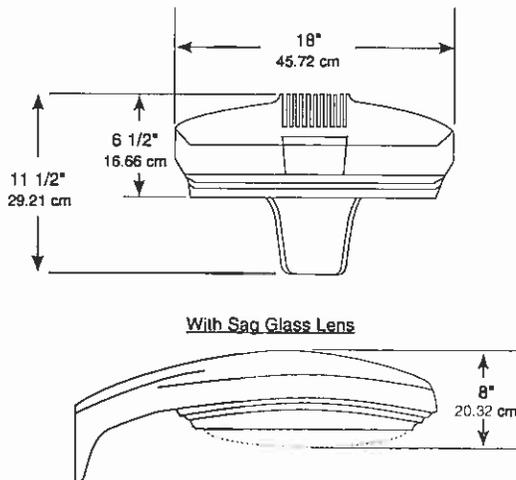
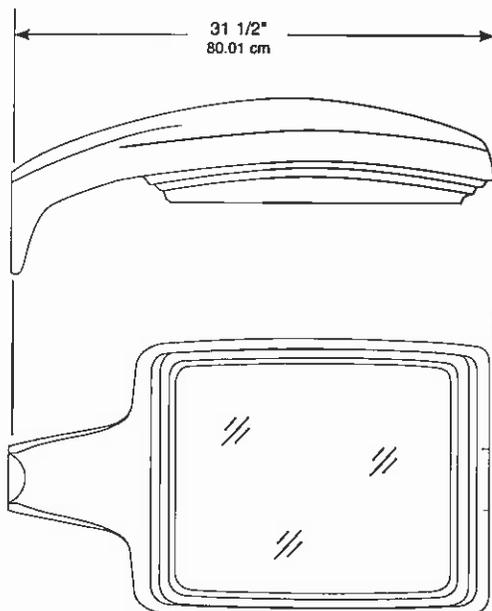
**LABELS:** All luminaires bear UL or CUL (where applicable) Wet Location labels.

**WARRANTY:** Gardco luminaires feature a 5 year limited warranty. See Warranty Information on [www.sitelighting.com](http://www.sitelighting.com) for complete details and exclusions. Polycarbonate lenses carry a 1 year warranty only.

**FULL CUTOFF PERFORMANCE:** Full cutoff performance means a luminaire distribution where zero candela intensity occurs at an angle of 90° above nadir. Additionally, the candela per 1000 lamp lumens does not numerically exceed 100 (10 percent) at a vertical angle of 80° above nadir. This applies to all lateral angles around the luminaire.

**CUTOFF PERFORMANCE:** Cutoff performance means a luminaire distribution where the candela per 1000 lamp lumens does not numerically exceed 25 (2.5 percent) at an angle at or above 90° above nadir, and 100 (10 percent) at a vertical angle of 80° above nadir. This applies to all lateral angles around the luminaire.

### DIMENSIONS



EPA Data

1	2	3-4
1.2 ft <sup>2</sup>	2.4 ft <sup>2</sup>	3.2 ft <sup>2</sup>
11 m <sup>2</sup>	22 m <sup>2</sup>	30 m <sup>2</sup>

Gardco Lighting 1611 Clovis Barker Road San Marcos, TX 78666 (800) 227-0758 (512) 753-1000 FAX: (512) 753-7855 [www.sitelighting.com](http://www.sitelighting.com)

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75115 85/0909